

Gene	p-value (GBA, BH corr)	Correlation	Rank	Expression	Mutant Allele
S100g	4.4E-04	0.727061043	1	BioGPS:12309	PMID: 17696760
Slc34a2	3.7E-04	0.709052059	4	PMID: 19729436	PMID: 19729436
Lamp3	2.9E-04	0.701013878	3	PMID: 12938238	
Bex2	4.8E-03	0.699425225	1	euxassay_009948	
Cd36	2.2E-03	0.684552056	4	PMID: 10409247	PMID: 18483551
Etv5	1.4E-04	0.68285189	4	PMID: 12941618	PMID: 12941618
Scd1	4.4E-04	0.675503496	2	PMID: 23637738	PMID: 11533264
Il33	2.2E-03	0.667806031	4	PMID: 22331917	PMID: 22331917
Fabp5	1.7E-03	0.667727618	1	PMID: 11931385	PMID: 23624787
Hc	1.1E-03	0.658832258	1	euxassay_008681	PMID: 10973279
Sftpa1	9.2E-04	0.656280319	4	PMID: 11850179	PMID: 11867335
Dlk1	2.2E-03	0.656201438	4	PMID: 16456855	PMID: 12101250
Cxcl15	2.8E-03	0.651776823	2	PMID: 10228029	PMID: 11207292
Chsy1	5.2E-03	0.645335943	2	Genepaint Set ID:MH3283	PMID: 22280990
Lcn2	2.2E-03	0.638875677	4	PMID: 20633248	PMID: 20633248
Fasn	1.6E-02	0.618998832	2	PMID: 10444533	PMID: 12738878
Sftpb	2.8E-03	0.618800478	4	PMID:12829717	PMID: 7644495
Egfl6	1.2E-03	0.613827715	1	euxassay_002381	PMID: 22613833
Lyz1	5.2E-03	0.60087424	1		
Sftpc	5.3E-03	0.583951184	4	PMID: 1591008	PMID: 11344267
Soat1	1.6E-02	0.581832236	1	euxassay_004596	PMID: 10777503
Glrx	1.9E-03	0.577233529	1	euxassay_013810	PMID: 20472709
Mlc1	1.4E-01	0.575076378	1	BioGPS:170790	
Retnla	6.0E-02	0.57504678	4	PMID: 10921885	PMID: 19349464
Mid1ip1	2.4E-02	0.572556613	1	BioGPS:68041	
Chi3l1	1.6E-02	0.57185136	4	PMID: 20558631	PMID: 19414556
Rab27a	1.9E-02	0.56684611	4	PMID: 17761531	PMID: 21160031
Fabp12	1.2E-02	0.56575671	1		
Lgi3	3.6E-02	0.561664926	1	PMID: 15659226	PMID: 18936251
Lyz2	5.1E-01	0.555812356	1	PMID: 3202483	PMID: 12411294

Gene	p-value (GBA, BH corr)	Correlation	Rank	Expression	Mutant Allele
Clic5	1.3E-07	0.700258247	2	euxassay_006793	PMID: 17021174
Pdpn	2.3E-05	0.676430236	4	PMID: 7851650	PMID: 12654292
Akap5	2.7E-07	0.675933399	1	BioGPS: 238276	PMID: 18711127
Lmo7	8.0E-06	0.654940205	2	PMID: 15556938	PMID: 19215226
Ahnak	6.0E-06	0.651582872	1	PMID: 15556938	PMID: 15373775
Sdpr	1.7E-03	0.64879937	1	PMID: 15205179	
Emp2	5.9E-05	0.623619698	1	PMID: 15205179	
Col4a3	2.9E-04	0.621746883	1	PMID: 2650557	PMID: 12631109
Rtkn2	6.1E-04	0.621709429	1	PMID: 11740862	
Cav1	2.6E-04	0.620388961	4	PMID: 9452954	PMID: 11498544
Timp3	5.9E-05	0.615675333	4	PMID: 15205179	PMID: 11560951
Ager	2.9E-04	0.579264185	4	PMID: 9846897	PMID: 17951314
Msn	1.0E-02	0.572551141	4	PMID: 18658275	PMID: 18658275
Limch1	5.1E-02	0.570633882	1	euxassay_000505	
Hopx	1.0E-02	0.569781242	4	PMID: 23921127	PMID: 16510470
Ptrf	6.1E-04	0.569702611	4	PMID: 23634221	PMID: 23634221
S100a6	2.9E-02	0.567504122	2	PMID: 8449996	
Dpysl2	2.6E-04	0.561506314	2	PMID: 10875745	PMID: 22279220
Agrn	1.9E-03	0.560357659	1	PMID: 9652404	PMID: 9652404
Akap2	2.7E-02	0.555549317	2	PMID: 9497389	
Pmp22	1.9E-03	0.54687502	2	PMID: 8847735	PMID: 7581450
Tinagl1	1.2E-02	0.543987632	2	euxassay_006003	
Lgals3	1.3E-03	0.542886466	1	PMID: 8774488	PMID: 20543100
S100a14	3.5E-03	0.538104579	2	PMID: 19812696	
Malat1	2.6E-04	0.533270205	1	PMID: 17270048	PMID: 22840402
Vegfa	9.5E-02	0.528747235	4	PMID: 15879288	PMID: 12151311
Samhd1	1.7E-03	0.528119972	2	euxassay_010565	
Qk	2.7E-03	0.527345023	2	euxassay_012259	PMID: 14706070
Sema3a	2.9E-04	0.523562107	4	PMID: 11025205	PPMID: 22096573
Aqp5	5.1E-02	0.514361565	4	PMID: 11707570	PMID: 11707570

Gene	p-value (GBA, BH corr)	Correlation	Rank	Expression	Mutant Allele
Cyp2f2	4.8E-08	0.911023689	2	PMID: 9308917	

Scgb3a2	5.5E-07	0.89782117	2	PMID: 12406855	
Chad	4.8E-08	0.89333278	1	PMID: 15332017	
Hp	1.3E-06	0.866630755	4	PMID: 7564277	PMID: 9731043
Scgb1a1	1.3E-04	0.834831396	4		PMID: 8897914
Krt15	1.4E-05	0.801744599	1	euxassay_010051	
Cbr2	7.8E-05	0.789902015	2	PMID: 22675208	
Itm2a	7.8E-06	0.77680846	1		
Upk3a	2.0E-05	0.764721014	2	PMID: 22797898	
Rassf9	6.3E-05	0.762230245	3	euxassay_006876	PMID: 21445300
Col23a1	2.0E-05	0.752074579	2	PMID: 16728390	
Lypd2	2.0E-04	0.709636873	1	BioGPS: 68311	
Nupr1	1.3E-04	0.701208393	1	euxassay_002170	PMID: 18495683
Ppap2b	2.0E-04	0.677179234	2	PMID: 19123136	PMID: 19123136
Cd200	4.8E-05	0.67285009	2	PMID: 20070425	PMID: 11099416
Mtus1	2.0E-02	0.661037801	1	BioGPS: 102103	
Mia1	3.4E-03	0.655377223	4	PMID: 18342301	PMID: 11839810
1810010H24Rik	2.0E-04	0.653804389	1	euxassay_007581	
Dcxr	3.2E-03	0.650547972	1	BioGPS: 67880	
Aldh1a7	3.4E-03	0.648517049	1	BioGPS: 26358	
Osgin1	5.6E-04	0.638998593	1	BioGPS: 71839	
Kdr	5.6E-04	0.632130176	1	euxassay_019753	PMID: 22036563
Ccnd1	3.4E-03	0.627920927	3	PMID: 10380928	PMID: 10380928
Ccnd2	3.2E-04	0.621088261	3	PMID: 17167788	PMID: 10101126
Gsta3	8.1E-03	0.62084508	2	BioGPS: 14859	PMID: 19850059
Tacstd2	7.6E-03	0.618682592	2	PMID: 15556938	PMID: 21970857
Nrarp	8.1E-03	0.606777647	1	PMID: 11783997	PMID: 19154719
lyd	5.3E-03	0.597782838	2	PMID: 20578903	
Pir	6.0E-02	0.591323425	1	BioGPS: 69656	

Gene	p-value (GBA, BH corr)	Correlation	Rank	Expression	Mutant Allele
Ncs1	4.4E-03	0.997316237	1	euxassay_000408	PMID: 21737792
Ccdc67	4.4E-03	0.994828274	1	euxassay_008557	
1700007G11Rik	4.4E-03	0.99252623	1	PMID: 22008794	
Foxj1	4.4E-03	0.989768924	4	PMID: 19011630	PMID: 19011630
1110017D15Rik (CBE1)	4.4E-03	0.988895697	2	PMID: 19213785	
Ccdc19	4.4E-03	0.988144092	2	PMID: 10524255	

Stk33	4.4E-03	0.987239263	1	PMID: 16176263	
Spag17	9.9E-03	0.985553694	3		PMID: 23418344
Ccdc39	4.4E-03	0.984572151	4	PMID: 21131972	MGI - J:175213
Lrriq1	4.4E-03	0.984366726	1		
4930451C15Rik	4.4E-03	0.979188103	1	BioGPS: 74685	
Efhc1	4.4E-03	0.979027367	3	PMID: 18164683	PMID: 18164683
Lrrc23	4.4E-03	0.976425447	1	euxassay_005900	
Ttc18	4.4E-03	0.974286083	2	PMID: 17971504	
Mlf1	9.9E-03	0.974263259	3	PMID: 23300604	
6820408C15Rik	4.4E-03	0.972607082	1	BioGPS: 228778	
Traf3ip1	9.9E-03	0.972397215	3	BioGPS: 74019	PMID: 21945076
Kif9	9.9E-03	0.972084754	2	euxassay_011006	
Wdr16	4.4E-03	0.967235617	1	PMID: 17394468	
Lrrc36	9.9E-03	0.966928775	1	BioGPS: 270091	
Fank1	4.4E-03	0.964688183	3	euxassay_005846	
Enkur	2.2E-02	0.96294249	1	BioGPS: 71233	
1700009P17Rik (Fltp)	4.4E-03	0.960448544	3	PMID: 22153975	PMID: 22153975
Tekt4	4.4E-03	0.954784185	1	PMID: 17244819	PMID: 17244819
Ccdc40	4.4E-03	0.953435977	4	PMID: 21131974	PMID: 21131974
Hs6st2	4.4E-03	0.95334595	2	PMID: 15499561	PMID: 22745308
Ccdc113	4.4E-03	0.946759292	1	BioGPS: 244608	
BC048355 (Dnph1)	4.4E-03	0.940342714	1		
Gm6320 (Mcidas)	3.5E-02	0.939427247	4		

"AT2" Population Markers

Literature

expressed in the Lung, no lung phenotype noted

expressed in AT2 cells, mutants have pulmonary alveolar microlithiasis

expressed in AT2 cells

expressed in distal airway epithelium at E14.5

expressed in AT2 cells, mutants have enhanced susceptibility to bleomycin-induced fibrosis.

expressed in distal airway epithelium, mutants lose AT1 cells & have immature AT2 cells

expressed in AT2 cells, mutants have no lung phenotype noted

expressed in AT2 cells, mutants have reduced eosinophils in the lungs after *S. venezuelensis* infection

expressed in AT2 cells, mutants have enhanced H1N1 Influenza-mediated inflammation

expressed in airway epithelium at E14.5, mutants have increased airway response to ovalbumin challenge

expressed in AT2 cells, mutants have reduced resistance to and enhanced inflammatory responses to pulmonary infections

expressed in airway epithelium, mutants have 50% perinatal lethal, escapers have no lung phenotype

expressed in airway epithelium, mutants have increased susceptibility to *Klebsiella* infection, reduced neutrophils

expressed in airway epithelium at E14.5, mutants have bone development defects, no lung phenotype noted

expressed in AT2 cells, mutants have increased bacterial load in *E. coli*-induced pneumonia

expressed in AT2 cells, mutants have pre-implantation lethal

expressed in AT2 cells, mutants have respiratory failure

expressed in distal airway epithelium at E14.5, RGD motif mutants have no noted lung phenotype

expressed in AT2 cells, mutants have abnormal lung mechanics

expressed in distal airway epithelium, mutants have no lung phenotype noted

expressed in , mutants have increased sensitivity to cigarette smoke

expressed in lung

expressed in PNEC?, Clara, AT2 cells (after challenge), mutants have increased inflammation in response to *Schistosoma mansoni* infection

expressed in AT2 cells, mutants have decreased inflammation in IL13 challenge

expressed in AT2 cells, mutants have age-related epithelial atrophy

expressed in Clara cells, mutants have no lung phenotype noted

expressed in AT2 cells, mutants have increased inflammation in response to *Micrococcus luteus* infection

"AT1" Population Markers

Literature

expressed in organized vessels at E14.5, mutants have progressive emphysema-like phenotype

expressed in AT1 cells, mutants have respiratory failure and fewer type 1 cells

mutants have no lung phenotype noted

expressed in distal lung epithelium, mutants have increased incidence of lung cancer

expressed in lung, mutants have no lung phenotype noted

expressed in AT1 cells

expressed in alveolar basement membrane, mutants have Alport syndrome(pulmonary edema), Goodpasture Syndrome autoantigen (pulmonary hemorrhage)

expressed in the lung

expressed in AT1 cells, mutants have loss of caveolae, thickened alveolar septae,& endothelial fibrosis

expressed in AT1 cells, mutants have reduced bronchiole branching, reduced alveologenesis

expressed in AT1 cells, mutants have resistant to bleomycin-induced fibrosis

expressed in AT1 cells, mutants have airspace enlargement, increased sensitivity to bleomycin

expressed in distal airway epithelium at E14.5

expressed in AT1 cells, mutants have reduced pulmonary function

expressed in AT1 cells, mutants have increased airway resistance & elastance, thickened septa

expressed in alveolar epithelium

expressed in distal airway epithelium, mutants have no lung phenotype noted

expressed in AT1 cells, mutants have no spontaneous breathing, no lung phenotype noted

expressed in AT1 cells

expressed in embryonic lung mesenchyme, mutants have no lung phenotype noted

expressed in distal airway epithelium at E14.5

expressed in macrophages and weakly in airway epithelium, mutants have decreased airway response to ovalbumin challenge, alveolar macrophage defects

expressed in airway epithelium

expressed in the lung, mutants have no lung phenotype

expressed in AT1 cells, mutants have respiratory distress

expressed in distal airway epithelium

expressed in lung mesenchyme, mutants have no lung phenotype noted

expressed in alveolar epithelium, mutants have thickened septa, reduced airspace, reduced AT1 markers

expressed in AT1 cells, mutants have reduced water permeability; reduced bronchostriction in response to acetylcholine

"Clara" Population Markers

Literature

Expressed in Clara cells, used to metabolize xenobiotics. PMID: 10381788, PMID: 18757308

Expressed in subsets of Clara cells
Expression observed in the lung.
Expressed in the airway epithelium, mutants have no lung phenotype noted, o/e in macrophages reduces blood-induced lung injury PMID: 12388365
Expressed in Clara cells, a secreted protein that binds pollutants/lipophilic molecules.
Expressed in the trachea and primary bronchi at E14.5, labels the stem cells of the hair follicle. PMID: 21694721
Expressed in Clara Cells, Carbonyl reductase activity shown to be specific to Clara cells, PMID: 1688897,
A Pax3 target associated with alveolar rhabdomyosarcoma. PMID: 11863357
Expressed in immature Clara cells
expressed in airway epithelium at E14.5, mutants have severe alveolar defects
Transmembrane collagen expressed in the lung.
No literature.
expressed in pulmonary vasculature at E14.5, no lung phenotype noted
Expressed in the lung mesenchyme at E13.5, no lung phenotype noted
Expressed in Clara cells, no lung phenotype noted
Observed as a tumor suppressor, anti-mitotic protein. PMID: 19794912
Expressed in airway epithelium, restriction to proximal regions at late stages, mutants have no lung phenotype noted, but o/e disrupts lung development PMID: 18342
Expressed in the trachea and primary bronchi at E14.; No literature.
Role beyond converting l-xylulose into xylitol is unclear.
Expression observed in pancreatic ductal progenitors. PMID: 20018761
No literature.
Expressed in the vascular endothelium at E14.5, vascular-specific deletion disrupts pneumonectomy-induced alveolarization
Expressed in lung, no phenotype reported in the knockout mouse
Expressed in the lung in response to hyperoxic injury, mutants have no lung phenotype noted
Expressed in the liver, mutants have no lung phenotype
Expressed in the epithelium during lung development, mutants have no lung phenotype noted
expressed in the lung, mutants have increased vessel regression, but no lung phenotype noted, Notch regulated, implicated in somitogenesis. PMID: 19882724
Expressed in the thyroid,
induced in bronchial epithelium by chronic smoking, redox regulator of NFkB PMID: 23716661

"Ciliated" Population Markers
Literature
expressed in the airway epithelium at E14.5, mutant has no lung phenotype noted
expressed in the airway epithelium at E14.5
expressed in the node,
Master regulator of the motile ciliogenic program.
Expressed observed in ciliated cells of humans, mice, and in culture.
Expressed in nasopharynx and trachea.

expressed in adult lung epithelium
Important for cilia motility and neonatal survival.
expressed in the airway epithelium, mutants have immotile tracheal airway cilia, and mechanism determined as to ciliary function
No literature
expressed in lung
Associated with cilia, expression observed in adult trachea.
expressed in airway epithelium
Expressed in lung and ciliated olfactory epithelium.
Found to be a regulator of cilium formation in culture.
No literature
Expressed in lung, mutants have no lung phenotype noted, but in culture studies show involvement in ciliogenesis
Expressed in lung, kinesin-like protein. PMID: 11483511
Low level expression in the lung.
No literature
expressed in airwy epithelium at E14.5; reported in an asthma genetic association study. PMID: 18682798
Binds calmodulin in sperm. PMID: 15385169
Expressed in ciliated cells
not detected in lung, no lung phenotype noted, but does show sperm flagellar defect
Mutation in humans causes Primary ciliary dyskinesia.
Expressed in the developing lung, mutants have no lung phenotype noted
No literature.
No literature.
Shown to be involved in ciliogenesis in Xenopus and in culture with mouse airway epithelial cells. PMID: 22231168



AT1			AT2			
gene	Pearson corr coeff	p-value (GBA, BH corrected)	gene	Pearson corr coeff	p-value (GBA, BH corrected)	gene
Clic5	0.70025825	1.3E-07	S100g	0.72706104	4.4E-04	Cyp2f2
Pdpr	0.67643024	2.3E-05	Slc34a2	0.70905206	3.7E-04	Scgb3a2
Akap5	0.6759334	2.7E-07	Lamp3	0.70101388	2.9E-04	Chad
Lmo7	0.65494021	8.0E-06	Bex2	0.69942523	4.8E-03	Hp
Ahnak	0.65158287	6.0E-06	Cd36	0.68455206	2.2E-03	Scgb1a1
Sdpr	0.64879937	1.7E-03	Etv5	0.68285189	1.4E-04	Krt15
Emp2	0.6236197	5.9E-05	Scd1	0.6755035	4.4E-04	Cbr2
Col4a3	0.62174688	2.9E-04	Il33	0.66780603	2.2E-03	Itm2a
Rtkn2	0.62170943	6.1E-04	Fabp5	0.66772762	1.7E-03	Upk3a
Cav1	0.62038896	2.6E-04	Hc	0.65883226	1.1E-03	Rassf9
Timp3	0.61567533	5.9E-05	Sftpa1	0.65628032	9.2E-04	Col23a1
Ager	0.57926419	2.9E-04	Dlk1	0.65620144	2.2E-03	Lypd2
Msn	0.57255114	1.0E-02	Cxcl15	0.65177682	2.8E-03	Nupr1
Limch1	0.57063388	5.1E-02	Chsy1	0.64533594	5.2E-03	Ppap2b
Hopx	0.56978124	1.0E-02	Lcn2	0.63887568	2.2E-03	Cd200
Ptrf	0.56970261	6.1E-04	Fasn	0.61899883	1.6E-02	Mtus1
S100a6	0.56750412	2.9E-02	Sftpb	0.61880048	2.8E-03	Mia1
Dpysl2	0.56150631	2.6E-04	Egfl6	0.61382771	1.2E-03	1810010H24F
Agrn	0.56035766	1.9E-03	Lyz1	0.60087424	5.2E-03	Dcxr
Akap2	0.55554932	2.7E-02	Sftpc	0.58395118	5.3E-03	Aldh1a7
Pmp22	0.54687502	1.9E-03	Soat1	0.58183224	1.6E-02	Osgin1
Tinagl1	0.54398763	1.2E-02	Glrx	0.57723353	1.9E-03	Kdr
Lgals3	0.54288647	1.3E-03	Mlc1	0.57507638	1.4E-01	Ccnd1
S100a14	0.53810458	3.5E-03	Retnla	0.57504678	6.0E-02	Ccnd2
Malat1	0.5332702	2.6E-04	Mid1ip1	0.57255661	2.4E-02	Gsta3
Vegfa	0.52874723	9.5E-02	Chi3l1	0.57185136	1.6E-02	Tacstd2
Samhd1	0.52811997	1.7E-03	Rab27a	0.56684611	1.9E-02	Nrarp
Qk	0.52734502	2.7E-03	Fabp12	0.56575671	1.2E-02	Iyd
Sema3a	0.52356211	2.9E-04	Lgi3	0.56166493	3.6E-02	Pir
Tspan8	0.52064603	5.4E-02	Lyz2	0.55581236	5.1E-01	Snx31
Cryab	0.51855671	6.8E-02	Cat	0.54401525	3.4E-01	Acsl1
Scnn1g	0.51819226	3.5E-03	Prps2	0.54145842	7.5E-01	Cd24a
Myh9	0.51749994	1.8E-02	Car8	0.53013942	6.0E-02	Alkbh1
Aqp5	0.51436156	5.1E-02	Acss3	0.53006046	3.3E-01	Fam13a
Fbln5	0.5136205	5.3E-02	Lpcat1	0.52766862	3.5E-01	Trf
Clic3	0.50330091	6.5E-03	Rgs10	0.52464769	3.3E-01	Upk1a
Fxyd3	0.49755341	5.1E-02	Fam82a1	0.51902443	1.0E-01	Mboat1
Cldn18	0.49714882	1.7E-03	Rab27b	0.51844785	3.4E-02	Cldn10
Sparc	0.4915695	7.9E-02	Nipal1	0.50190871	3.7E-01	Frat2
1190002H23F	0.4847106	2.1E-02	AY512931	0.49993089	3.3E-01	Gna14
Igfbp6	0.47931241	5.3E-02	Slc31a1	0.49917733	4.2E-03	Fmo1
Flrt3	0.47710758	5.1E-02	Fam46a	0.49176292	1.5E-01	Lrrc26
Anxa3	0.47581186	3.8E-02	Hsd3b7	0.48973292	1.0E+00	Gsto1

Gprc5a	0.47026166	3.1E-01 Napsa	0.48442263	6.5E-02 5330417C22F
Tmem37	0.46864604	1.2E-02 Ly6c2	0.48384557	6.0E-02 Aldh1a1
Myo1c	0.44406274	5.3E-02 Ppp1r14c	0.47533367	9.2E-04 Ubr4
2200002D01f	0.43945692	6.8E-01 Nol9	0.46960391	4.8E-01 Bcl6
Cd9	0.43891869	1.3E-02 Nfix	0.46827474	3.7E-01 Gmnn
Frmd6	0.43249144	2.2E-02 Abca3	0.461466	9.7E-02 Rcn1
Slco3a1	0.43040401	6.3E-02 Snx7	0.46131791	1.3E-01 Cisd1
Col4a1	0.42810822	4.2E-01 Acox1	0.46069808	3.3E-01 Cp
Spnb2	0.42796653	3.5E-03 Bcl2a1b	0.46014452	1.5E-01 Emp1
Id3	0.42525521	9.5E-02 Irs1	0.45950059	5.0E-01 8430408G22f
Lims1	0.42209744	1.0E+00 Pi4k2b	0.45864123	1.3E-01 Rpl41
Gsn	0.42191723	2.0E-01 Dhrr7	0.45609206	6.5E-02 Vamp5
Itgb6	0.41390553	2.3E-01 Adamts1	0.45042331	1.9E-01 Ptgs2
Msln	0.41137546	1.1E-01 Psme1	0.4461745	8.8E-02 Cckar
Dag1	0.411232	4.2E-01 D330041H03l	0.44308176	9.1E-01 Ldhd
Rab11fip1	0.41106657	6.2E-01 Nucb2	0.43942151	2.4E-02 Ace2
Mrpl14	0.41102272	6.2E-01 Fut4	0.43892472	1.1E-01 Sfn
Trim16	0.40806484	2.6E-01 Gcat	0.43790259	1.0E+00 Rgma
Tspan15	0.4076346	2.0E-01 Plod3	0.43757409	6.0E-01 Fam107b
Col4a2	0.4057245	6.8E-01 4933436C20f	0.43680568	1.0E+00 Ly6i
Tm9sf3	0.40542551	9.3E-01 Mtch2	0.43365251	1.3E-01 Rnd3
Atxn1	0.40449059	1.1E-01 Sart1	0.43280436	3.3E-01 C3
Usp46	0.40424038	2.0E-01 Sepx1	0.43223396	1.0E+00 H19
Mthfd1	0.40300416	1.2E-02 Gdpd2	0.43073322	3.3E-01 Mgst1
Pard6b	0.40009383	5.1E-01 Pon1	0.42752541	3.3E-01 Dnajb1
Crlf3	0.39987273	4.6E-01 Tmem154	0.42726201	4.8E-01 Tcf4
Tmod3	0.3996849	1.0E+00 Adam19	0.42580599	1.0E+00 2900060B14f
Nbeal1	0.39382536	1.0E+00 Pla2g1b	0.42261927	4.8E-01 Map1lc3a
Serpinb6b	0.39266884	6.5E-01 Dram1	0.4212731	5.9E-01 Cldn4
Mal2	0.38814862	1.0E+00 Fgfr2	0.41825546	5.1E-01 Ifitm1
Mpp5	0.38777332	1.1E-01 Atp6v1c2	0.41741574	1.3E-01 Wdr36
Krt19	0.38728055	1.0E+00 Cftr	0.41047241	3.5E-01 1500010J02R
Igfbp7	0.38335955	2.0E-01 H2afj	0.41030159	3.6E-01 Ccdc115
Gm12060	0.3826255	1.1E-01 Cd74	0.4095035	1.5E-01 Cnn3
Gja1	0.37846462	8.7E-01 Klhl13	0.40839667	4.8E-01 Mpv17
Col4a4	0.37629764	1.0E+00 Bcl2a1d	0.40810425	1.0E-01 Qpct
Gm16880	0.37566456	6.0E-02 Snora78	0.40502444	6.0E-01 Rrs1
Prdx6	0.37521594	1.0E+00 Rnase4	0.40065244	6.2E-01 Foxq1
Actb	0.37330488	1.0E+00 Pla2g4c	0.39204588	1.0E+00 Ifrd1
Fam63b	0.37140996	3.1E-01 Gstt1	0.39099111	1.0E+00 Ly6e
Prickle3	0.37089241	1.0E+00 Ppp1r8	0.38782113	1.0E+00 Gsta4
Tjp1	0.37046253	6.8E-01 Ppargc1a	0.38710595	1.0E+00 Ephx1
Wnk1	0.36946866	1.0E+00 Dbi	0.38703176	5.1E-01 Igsf1
Lama5	0.36881564	6.5E-01 Sftpd	0.38698149	1.3E-01 Rbm24
Lamc2	0.36756392	5.1E-02 Cxx1b	0.38400374	1.0E+00 Tmed3
Fam108c	0.3674407	5.1E-01 Sox9	0.38379574	4.8E-01 Pla2g10
Cttnbp2nl	0.36732472	2.1E-01 Tbc1d4	0.38360876	1.0E+00 Ptpn13
Adam9	0.36564295	5.0E-01 Ctsc	0.38208188	4.8E-01 Mipol1

Cnn2	0.35900575	5.8E-01	Ppp1r1a	0.38136971	1.0E+00	Copz1
Magi3	0.35834613	6.5E-01	Gmppb	0.3809726	1.0E+00	Acer3
Ppp3ca	0.35726	9.3E-01	Trpv6	0.38090979	1.0E+00	Tmem132a
Wdr45	0.35389396	1.0E+00	Scarna3a	0.38047851	1.0E+00	Notch2
Als2cl	0.3523683	4.2E-01	Tmed6	0.38034926	1.0E+00	Mrpl19
Hmha1	0.35065049	3.3E-01	Cytip	0.38011883	1.0E+00	Cxcl1
Rps19-ps3	0.35037082	1.0E+00	1600012F09R	0.37985312	1.0E+00	Hpn
Cttnbp2	0.34969369	1.0E+00	Col6a2	0.37947857	7.5E-01	Atp1b3
Fhl1	0.34853707	1.0E+00	Zfp251	0.37854314	1.0E+00	Cgnl1
S100a10	0.34630512	6.8E-01	Zfp719	0.37762916	1.0E+00	BC030870
A930038C07F	0.34601983	6.8E-01	Galnt2	0.37730689	1.0E+00	Slc7a6
Zfyve21	0.34360043	1.0E+00	Mast3	0.37681013	1.0E+00	Slc7a1
Akap13	0.3426663	1.0E+00	Tectb	0.37593625	1.0E+00	Por
Osbp19	0.33833884	3.4E-01	Gif	0.37437779	6.0E-01	Fmo2
Stard13	0.3373588	7.9E-01	Ppm1a	0.37390245	3.4E-01	Fam84a
Ano1	0.33535497	8.7E-01	Ly6c1	0.37377049	5.0E-01	Fosl1
D14Abb1e	0.33532921	6.2E-01	Hira	0.37248106	1.0E+00	Dusp23
Arf2	0.33526118	7.9E-01	Fzd8	0.37246831	1.0E+00	Mfsd7b
Xist	0.33426385	1.0E+00	Rps6ka4	0.37196562	1.0E+00	Slc25a25
Plp2	0.32858366	1.0E+00	4933405D12F	0.37184978	1.0E+00	Rasef
C430049B03F	0.32842687	1.0E+00	Gm16062	0.37080738	1.0E+00	Prom2
Galntl4	0.32828209	5.1E-01	Exd1	0.37053397	1.0E+00	Acsl4
Ehd2	0.32687435	8.7E-01	Tmem22	0.36818124	1.0E+00	Gm5617
F2r	0.32613766	2.0E-01	Dpp4	0.36763713	7.3E-01	Trib1
Mmp14	0.32464879	7.0E-01	Tsc22d4	0.36744469	1.0E+00	Net1
Slc4a5	0.3230053	1.0E+00	Mrps2	0.36717605	4.8E-01	Pold4
Egfr	0.32152275	3.3E-01	Cd44	0.36500839	1.0E+00	Myc
Pxdn	0.31940249	1.0E+00	Piwil4	0.36456349	1.0E+00	Pglyrp1
Trp53bp2	0.31670811	1.0E+00	Sgpp2	0.36418397	1.0E+00	Kcnj15
Psat1	0.31565323	1.0E+00	Epdr1	0.36121515	1.0E+00	Fads2
Tmsb4x	0.31548174	1.0E+00	Rnft1	0.36117761	1.0E+00	Neb1
Wwtr1	0.31501947	1.0E+00	Tbc1d24	0.36050286	1.0E+00	Tnfsf13
Acot2	0.31396081	1.0E+00	Acsl5	0.36017723	7.5E-01	Myd88
Fam73a	0.3124339	1.0E+00	Catsperb	0.36005522	1.0E+00	Ubxn2a
Cav2	0.31134278	1.0E+00	Tinag	0.35839529	7.3E-01	Itih5
Tspan2	0.31020012	1.0E+00	Csf2	0.35696147	1.0E+00	Reep6
Ctnna1	0.30930593	6.2E-01	Eri2	0.35617986	1.0E+00	Mrpl38
Zbtb8b	0.30887297	4.5E-01	Wbscr25	0.35598323	1.0E+00	Rpl32
Magi1	0.30867655	1.0E+00	Abtb1	0.35466548	1.0E+00	Pdxdc1
Npnt	0.30846786	1.0E+00	Secisbp21	0.35446593	1.0E+00	Atp11a
Rhoa	0.30817832	1.0E+00	Mettl1	0.35396726	1.0E+00	Atp2a3
Cux1	0.30720017	1.0E+00	Pik3c2g	0.35329608	1.0E+00	Ptk7
Tspan13	0.30595087	1.0E+00	Rtl1	0.35322639	1.0E+00	Abcc8
Fads3	0.30561526	9.8E-01	Stk11	0.35190524	1.0E+00	Kcnq1
Mtap6	0.30515099	5.0E-01	Supt7l	0.35122811	1.0E+00	Zfp750
Myl6	0.30340004	1.0E+00	Slco4c1	0.35080874	1.0E+00	Cldn15
Podxl	0.30306725	1.0E+00	Itih4	0.34967619	1.0E+00	Cxcl10
Lamc1	0.30288226	1.0E+00	Mrps27	0.34867429	6.0E-01	Abcc1

Krt7	0.30253811	1.0E+00	Aox3	0.34820657	1.0E+00	Rgl1
Rps19	0.30232629	1.0E+00	100043387	0.34782351	1.0E+00	Ptpn4
Arid1b	0.30127782	6.8E-01	Arg1	0.34758411	1.0E+00	Wfdc2
Wwp1	0.30102794	9.8E-01	Nanos1	0.34744374	1.0E+00	Pclo
Edn3	0.30011803	1.0E+00	Cmtm8	0.34733068	1.0E+00	Celf4
1700029G01F	0.3000987	1.9E-01	4930420K17F	0.34657979	2.2E-01	Selenbp2
			Thtpa	0.34645551	1.0E+00	Mettl7a1
			Tdrd5	0.34555369	1.0E+00	Hs3st1
			Npc1	0.34520294	1.0E+00	Ipp
			Serpinf1	0.3445241	1.0E+00	Dnajc15
			Arhgap17	0.34407901	1.0E+00	Dhx33
			Acsl4	0.34332864	7.5E-01	Zfp747
			Bcl11a	0.34327133	1.0E+00	Igf2
			Klhdc9	0.34190098	1.0E+00	Smurf2
			Lpl	0.34097076	1.0E+00	Mybphl
			Rgs19	0.33992458	1.0E+00	Wfdc3
			2210012G02F	0.33928076	1.0E+00	Tmem90b
			Camk2n1	0.33897729	1.0E+00	0610040J01R
			Agtpbp1	0.33879523	1.0E+00	Gpr39
			9-Mar	0.33767123	1.0E+00	Atat1
			Tmem145	0.33732226	1.0E+00	BC030867
			Slc15a4	0.3369738	1.0E+00	Rybp
			Car2	0.33643159	1.0E+00	Cnpy3
			6720463M24I	0.33391693	1.0E+00	Gstt3
			Klc2	0.33371802	1.0E+00	Bod1
			Vdr	0.3323133	1.0E+00	Uso1
			Prlr	0.3319347	4.8E-01	Mettl13
			Dusp2	0.32976638	1.0E+00	Rnf128
			BC003331	0.32915499	1.0E+00	Idh2
			Itpk1	0.32912191	1.0E+00	Prpf40a
			C6	0.32874796	1.0E+00	Ctnnal1
			Sfxn2	0.32859958	1.0E+00	Timm50
			Aass	0.32858484	1.0E+00	Dclk1
			Usp10	0.32843031	1.0E+00	Map2k3
			1700096K18F	0.32814102	1.0E+00	Sprr1a
			Surf6	0.32812647	1.0E+00	Dcaf5
			Npc2	0.32784268	1.0E+00	Slc25a37
			Stx19	0.32695068	1.0E+00	Sdad1
			Ptplad1	0.32672344	4.8E-01	Ces1d
			Akr1b3	0.32592592	1.0E+00	Aip
			Mrpl2	0.32454178	1.0E+00	Mapk13
			Bcl2a1a	0.32435088	1.0E+00	Grhl1
			Col18a1	0.32401654	1.0E+00	Ifitm2
			Fbxw21	0.32333826	1.0E+00	Tspan3
			Snhg11	0.32091519	1.0E+00	Dtx4
			Tex261	0.32025799	1.0E+00	Foxred1
			Cyp4v3	0.31960894	1.0E+00	Prom1
			Ntn1	0.31936622	1.0E+00	Cyp2j6

Man2a2	0.3193586	1.0E+00	Ankrd33b
Vnn3	0.31928141	1.0E+00	Slc9a3r1
Rgs22	0.31916	1.0E+00	Sdc2
4930444A02F	0.31912757	1.0E+00	Phc2
Cdc42bpa	0.31855004	1.0E+00	Frem2
Gjb6	0.31841141	1.0E+00	Atp6v1b1
Lrp2	0.31831265	1.0E+00	Trim47
Ttyh3	0.31805118	1.0E+00	Srxn1
Limd1	0.31694726	1.0E+00	Rdh12
Baiap2l1	0.31662883	1.0E+00	Aig1
Rnaset2a	0.31640996	1.0E+00	Aqp4
Cited2	0.31477642	1.0E+00	Aamp
OTTMUSG000	0.31441869	1.0E+00	Notch1
Ngfrap1	0.31368657	2.9E-01	Parl
Mt2	0.31360814	1.0E+00	Slc7a11
Lgals9	0.31265302	1.0E+00	Cyfp2
Apoc1	0.31243582	1.0E+00	Tor1b
Pgm2	0.31190848	1.0E+00	Klhdc4
Gm14308	0.31076624	1.0E+00	Mthfd2
Mogs	0.31065719	1.0E+00	Gadd45a
Atp6v1b2	0.30971938	1.0E+00	Sipa1l1
Zfp280b	0.30923054	1.0E+00	2400009B08F
Nfkbiz	0.30885241	5.9E-01	Txndc15
Bdh2	0.30884254	1.0E+00	Coq6
Lamb1	0.30823452	1.4E-01	Dsg2
Rtkn	0.30817872	1.0E+00	Vps13d
Pacsin3	0.30796376	1.0E+00	Bzw2
Emr4	0.30757364	1.0E+00	2900053A13F
Stk11ip	0.30693738	1.0E+00	Bmpr1b
Esrp2	0.30488177	1.0E+00	Peg12
Zfp385b	0.30205003	1.0E+00	Polr3h
Atxn7l2	0.30158622	1.0E+00	Zfp688
Tmem159	0.30156259	1.0E+00	Zfp248
Sgms1	0.30150457	1.0E+00	Fan1
Ttc38	0.30042319	5.0E-01	Flrt2
			Cap2
			Lrrc33
			2900026A02F
			Cyb5
			Dtna
			Rcor1
			Selenbp1
			Ints12
			Cxcl2
			Pgcp
			Zyx
			Pla2g4a
			Ubiad1

Tuft1
Csrnp1
Usp47
Pold2
Aldh7a1
Eif3l
1700112E06F
Uchl3
Rpp38
Sigirr
Tctex1d2
2310061I04R
Wnk2
Tmem79
Rpl7l1
Epas1
Fam199x
Nit1
Rela
Zfp800
Psmg4
1110038B12F
Trerf1
Kdm6b
Mau2
Bmp3
Pask
Arhgap32
Atp6v1c2
Tspan1
Ccdc97
Fundc1
Crlf1
Tmprss13
Slc4a7
Jak1
Hars
Opa3
Ythdc2
Tnfaip8
Ascl4
Kbtbd11
Plaur
Nat15
Aak1
Kcnk2
Cox19
Gmcs

Gm16973
Uchl4
Cog4
Gna11
Tbrg3
Rps16
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Trpm6
Enah
Asph
Clec12a
Mif
Spink5
Spag7
Sub1
Ppox
1110019D14f
Maml1
Eid3
Slc1a1
Notch3
Chchd1
Ncoa1
Pcdh17
Ubap2l
Gga2
Dlat
Larp1
Fam92a
Gm14295
Spdef
Ube3b
Ndufa4l2
Rnf115
Cpped1
B330016D10I
Lyst
Serp1
Sdcbp2
Rpl39
Ap1b1
C77080
Nr4a1
Mat1a
Lptm4b
Rrp1b
Usp43
Slc23a1

Metap2
Dcaf12
Zfp161
Rpl23
Midn
Itpr1
Rps6kb2
Cdkn1c
Ddx49
Cox8a
Aco1
Ahr
Mkrn2
Lym4
Tra2b
2700089E24F
Trim39
Cnm4
Minpp1
Ifngr1
Rundc1
Vmp1
Arih2
Srp9
Dnaja4
Lmf1
5730559C18F
Snord22
C920006O11I
Naga
Fam48a
Hdhd3
Gm10406
Dtnb
2410131K14F
Pcd11
Bloc1s2
Sat1
2010003O02I
Scfd1
Fam46c
Tlr4
Csnk2a2
F3
Arih1
2410006H16F
Rpl12
Sf3b2

1810055G02F
0610007L01F
Adam28
Zc3hc1
2210013O21F
Ranbp2
Clint1
Ccndbp1
Gal3st1
Sc4mol
Mafg
Phpt1
1200011I18R
Nudcd2
2310003C23F
Rpl13
2700050L05R
Il6
Gm14393
Ftl1
Rgl3
Ambra1
Chaf1a
Mtf1
Atp5o
Fez2
Tomm70a
Tlcd1
Tspan7
Stip1
Eif3j
Avil
Lmbr1l
Rasl11a
Chordc1
Ttc37
Zdhhc1
Lpar2
Nr2c1
Appl2
Vps72
Mlph
Gdpd1
Gm6251
Kcnj13
Tmem125
Ifitm3
Tnfaip3

Xrcc5
Bsg
Ica1
Isca2
2810403D21f
Atf4
Esf1
Ssrp1
Efcab4b
Uba52
Mphosph6
Vmac

Vertical line 1

Vertical line 2

Vertical line 3

Vertical line 1

Vertical line 2

Vertical line 3

Vertical line 1

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Vertical line 1

Vertical line 2

Vertical line 3

Vertical line 1

Vertical line 2

Vertical line 3

Vertical line 1

Vertical line 2

Vertical line 3

Vertical line on the left side of the page.

Vertical line in the middle of the page.

Vertical line on the right side of the page.

Clara		ciliated		
Pearson corr coeff	p-value (GBA, BH corrected)	gene	Pearson corr coeff	p-value (GBA, BH corrected)
0.91102369	4.8E-08	Ncs1	0.99731624	4.4E-03
0.89782117	5.5E-07	Ccdc67	0.99482827	4.4E-03
0.89333278	4.8E-08	1700007G11F	0.99252623	4.4E-03
0.86663076	1.3E-06	Foxj1	0.98976892	4.4E-03
0.8348314	1.3E-04	1110017D15F	0.9888957	4.4E-03
0.8017446	1.4E-05	Ccdc19	0.98814409	4.4E-03
0.78990202	7.8E-05	Stk33	0.98723926	4.4E-03
0.77680846	7.8E-06	Spag17	0.98555369	9.9E-03
0.76472101	2.0E-05	Ccdc39	0.98457215	4.4E-03
0.76223024	6.3E-05	Lrriq1	0.98436673	4.4E-03
0.75207458	2.0E-05	4930451C15F	0.9791881	4.4E-03
0.70963687	2.0E-04	Efhc1	0.97902737	4.4E-03
0.70120839	1.3E-04	Lrrc23	0.97642545	4.4E-03
0.67717923	2.0E-04	Ttc18	0.97428608	4.4E-03
0.67285009	4.8E-05	Mlf1	0.97426326	9.9E-03
0.6610378	2.0E-02	6820408C15F	0.97260708	4.4E-03
0.65537722	3.4E-03	Traf3ip1	0.97239722	9.9E-03
0.65380439	2.0E-04	Kif9	0.97208475	9.9E-03
0.65054797	3.2E-03	Wdr16	0.96723562	4.4E-03
0.64851705	3.4E-03	Lrrc36	0.96692878	9.9E-03
0.63899859	5.6E-04	Fank1	0.96468818	4.4E-03
0.63213018	5.6E-04	Enkur	0.96294249	2.2E-02
0.62792093	3.4E-03	1700009P17F	0.96044854	4.4E-03
0.62108826	3.2E-04	Tekt4	0.95478419	4.4E-03
0.62084508	8.1E-03	Ccdc40	0.95343598	4.4E-03
0.61868259	7.6E-03	Hs6st2	0.95334595	4.4E-03
0.60677765	8.1E-03	Ccdc113	0.94675929	4.4E-03
0.59778284	5.3E-03	BC048355	0.94034271	4.4E-03
0.59132343	6.0E-02	Gm6320	0.93942725	3.5E-02
0.58113825	8.1E-03	Wdpcp	0.93731076	4.4E-03
0.56754614	1.3E-02	1700027A23F	0.92635419	4.4E-03
0.56587395	2.1E-03	1700016K19F	0.92528137	4.4E-03
0.56490717	5.4E-02	Nek10	0.91812869	4.4E-03
0.55967633	2.9E-02	Cdk1	0.91753644	9.9E-03
0.55740747	2.0E-02	1700023L04F	0.91618374	4.4E-03
0.54828272	5.4E-02	Mdm1	0.91240017	3.5E-02
0.54767772	6.0E-02	BC051019	0.90954449	9.9E-03
0.54402268	5.4E-02	1700097N02F	0.90527266	9.9E-03
0.54244294	1.1E-02	Nme5	0.89920755	2.2E-02
0.54216595	1.3E-02	Rsph1	0.89880806	9.9E-03
0.54013939	1.6E-01	Sorbs2	0.89555117	9.9E-03
0.54009758	7.9E-02	Melk	0.89527642	4.4E-03
0.5372246	4.8E-03	Calb2	0.88563015	9.9E-03

0.53716794	1.1E-02	1600029D21F	0.88464833	9.9E-03
0.53083601	5.4E-03	Mcm8	0.8796591	4.4E-03
0.52797992	4.9E-01	Ckap2l	0.87799461	4.4E-03
0.52603604	7.6E-03	Fam161a	0.8758179	4.4E-03
0.52436495	1.3E-02	Ccno	0.87503159	9.9E-03
0.52366968	2.9E-01	Efcab10	0.87498961	4.4E-03
0.522682	1.1E-02	Dnajb13	0.87469257	9.9E-03
0.52124796	7.9E-02	Lrwd1	0.87103641	5.4E-02
0.52012881	1.9E-01	2010107G23F	0.86050513	9.9E-03
0.5176532	9.0E-02	Wdr52	0.85441254	9.9E-03
0.51420548	4.1E-02	Kndc1	0.85425606	4.4E-03
0.5082778	1.6E-02	Pppde2	0.85417162	2.2E-02
0.49732806	6.0E-02	Spata24	0.85281639	9.9E-03
0.49447512	1.0E-01	Nek5	0.8525771	9.9E-03
0.49296166	2.1E-01	1700029J07R	0.85182638	9.9E-03
0.49214408	3.1E-02	Dnali1	0.83703756	4.4E-03
0.49198751	2.5E-01	Fhad1	0.83518227	4.4E-03
0.48920287	2.5E-01	Lrrc51	0.83516425	3.5E-02
0.48835507	3.1E-02	Pde3b	0.82758002	2.2E-02
0.48717145	2.5E-01	Fam183b	0.82013954	1.0E-01
0.48673498	1.6E-01	Fbxo16	0.81124514	6.0E-02
0.48603728	6.5E-03	Zmynd10	0.81124486	6.0E-02
0.48580978	1.8E-01	AK129341	0.81124053	6.0E-02
0.48002498	2.9E-01	Tekt1	0.81120141	6.0E-02
0.47930676	2.5E-01	Gm10639	0.81113221	6.0E-02
0.4775286	1.4E-02	1700025K23F	0.81110098	6.0E-02
0.47634079	3.8E-01	Gsta2	0.81104675	6.0E-02
0.47569075	6.0E-02	Olfml2b	0.81091725	6.0E-02
0.47485	2.5E-01	Agr2	0.81080372	6.0E-02
0.47321951	4.9E-01	Zfp667	0.81069526	6.0E-02
0.47198947	2.4E-01	Lrrc46	0.81065197	6.0E-02
0.47122695	2.9E-01	Cacnb3	0.81043748	6.0E-02
0.4685938	2.5E-01	Fermt1	0.8104257	6.0E-02
0.46633373	4.3E-01	Ttll6	0.8103477	6.0E-02
0.46570741	9.0E-02	6330439K17F	0.80992965	6.0E-02
0.46534372	1.2E-01	Spf2	0.80991269	6.0E-02
0.46489186	4.9E-01	Stil	0.80982643	6.0E-02
0.46470255	3.1E-02	Usp2	0.80952041	6.0E-02
0.46075587	4.3E-01	Efhd1	0.8094546	6.0E-02
0.4582288	3.8E-01	Ccna1	0.80924663	6.0E-02
0.45792125	9.0E-02	Bcas1	0.80903062	6.0E-02
0.45412528	5.8E-01	Lca5	0.80902569	6.0E-02
0.45404483	4.9E-01	Ropn1l	0.808955	6.0E-02
0.45121801	1.6E-01	Fbp1	0.80894384	6.0E-02
0.45070148	1.6E-01	Qsox1	0.80884014	6.0E-02
0.44996517	2.5E-01	4632434I11R	0.80883114	6.0E-02
0.4475683	4.9E-01	4930534B04F	0.80870428	6.0E-02
0.4471285	2.9E-01	Armc4	0.80862542	6.0E-02

0.44663033	1.1E-01 Tbx1	0.80825136	6.0E-02
0.44177336	1.8E-01 EglN3	0.80714229	6.0E-02
0.43886567	2.5E-01 Gsta1	0.80683551	6.0E-02
0.43712965	3.3E-01 Zfp382	0.80593435	9.9E-03
0.43687664	4.3E-01 Spata17	0.80583582	6.0E-02
0.43270388	2.5E-01 Lrrc34	0.80582724	6.0E-02
0.43201852	8.0E-01 1700001C02F	0.80519461	6.0E-02
0.4316498	2.5E-01 Gm11992	0.80495369	6.0E-02
0.42708406	3.8E-01 Ubxn11	0.80385296	6.0E-02
0.42695992	6.5E-01 4930444P10F	0.80321362	6.0E-02
0.42637504	6.5E-01 Nek2	0.80299345	6.0E-02
0.42630381	6.5E-01 Elmod1	0.80276728	6.0E-02
0.42621767	3.9E-01 Zfyve19	0.80262561	6.0E-02
0.42593022	5.8E-01 Ccdc30	0.80224535	6.0E-02
0.42191424	4.3E-01 Fignl1	0.80216023	6.0E-02
0.42149942	4.3E-01 4930588N13F	0.80157717	6.0E-02
0.42035801	2.5E-01 Sptlc3	0.80149717	6.0E-02
0.41933716	4.3E-01 Mns1	0.80147308	6.0E-02
0.41703656	9.5E-01 Vwa3a	0.80061156	1.2E-01
0.41657747	4.9E-01 Lrguk	0.80039797	6.0E-02
0.41422457	2.5E-01 Naa40	0.80008448	1.2E-01
0.41124009	2.1E-01 Top2a	0.79998576	1.2E-01
0.41123392	6.8E-01 6430531B16F	0.79817353	6.0E-02
0.41121383	4.9E-01 Frs1	0.79543045	1.2E-01
0.41105979	2.1E-01 Zfp354b	0.79506171	6.0E-02
0.41069376	4.6E-01 2610028H24F	0.79478937	6.0E-02
0.41015008	5.8E-01 Asrgl1	0.79469991	6.0E-02
0.40995237	1.2E-01 Riiad1	0.79463905	6.0E-02
0.40976995	3.8E-01 A430071A18F	0.79330387	6.0E-02
0.40963762	9.2E-01 Tm4sf1	0.79307529	1.2E-01
0.40960364	2.5E-01 Fam188b	0.79185327	1.2E-01
0.40951712	2.9E-01 1700012B09F	0.79128627	6.0E-02
0.40932122	6.5E-01 Fam81a	0.79024483	6.0E-02
0.40928215	9.2E-01 Dnahc7b	0.78937399	6.0E-02
0.40862444	4.9E-01 Wdr63	0.78896622	6.0E-02
0.40757346	1.6E-01 Efcab1	0.78873143	1.2E-01
0.40684546	5.5E-01 Adam15	0.78818305	1.2E-01
0.40679369	2.9E-01 Dnajc28	0.78676794	6.0E-02
0.40480681	6.8E-02 Ak7	0.7841871	6.0E-02
0.40409098	5.4E-02 Wdr34	0.78385657	6.0E-02
0.40213058	6.5E-01 Mak	0.7836053	6.0E-02
0.40104196	6.5E-01 Cdc25c	0.78068092	6.0E-02
0.40103858	6.5E-01 Smarcd2	0.77945418	2.2E-02
0.40098102	6.5E-01 Gm3776	0.77878093	6.0E-02
0.40089285	6.5E-01 BC055324	0.77673328	1.2E-01
0.40088704	6.5E-01 Foxn4	0.77327063	6.0E-02
0.40079184	6.5E-01 5730419I09R	0.77254897	1.6E-01
0.40058328	6.5E-01 Rnf32	0.77058427	2.2E-02

0.40017531	6.5E-01	Ulk4	0.76922375	6.0E-02
0.39970981	6.5E-01	E130303B06F	0.76699066	6.0E-02
0.39894941	9.5E-01	Rsph9	0.76696009	1.2E-01
0.39882194	6.5E-01	Tnn	0.76659922	1.2E-01
0.39787819	6.5E-01	Gins2	0.76605001	1.6E-01
0.39763123	6.8E-01	1700003M02I	0.76559474	6.0E-02
0.39738266	6.8E-02	Itih2	0.76415457	6.0E-02
0.39733447	6.5E-01	Chmp6	0.75828772	1.6E-01
0.39711405	9.2E-01	Ccdc60	0.75771338	6.0E-02
0.39690184	3.3E-01	Ankrd54	0.75637215	1.6E-01
0.39623516	6.5E-01	1700026L06R	0.75539679	6.0E-02
0.39568545	6.5E-01	Agbl2	0.75504767	6.0E-02
0.39557041	6.4E-01	Ttll13	0.75447694	6.0E-02
0.39550446	5.5E-01	Cdc20	0.7533437	6.0E-02
0.39520992	6.5E-01	Akap14	0.75259564	6.0E-02
0.39505762	6.5E-01	Znrf2	0.75117146	1.2E-01
0.39504711	6.5E-01	Omd	0.74437022	1.6E-01
0.39477511	9.2E-01	Cmpk2	0.74423783	1.2E-01
0.39467219	6.5E-01	Cby1	0.74129288	1.6E-01
0.39437792	1.6E-01	Dync2h1	0.74092924	3.5E-02
0.39418154	6.5E-01	Lrrc48	0.7397228	6.0E-02
0.39271172	3.9E-01	Tsnaxip1	0.73807702	6.0E-02
0.3926812	4.3E-01	Capsl	0.73774612	6.0E-02
0.39244625	4.3E-01	Cdkl4	0.73536727	6.0E-02
0.39137144	4.3E-01	Smc2	0.73534678	1.6E-01
0.39125275	4.3E-01	9230110C19F	0.73454599	6.0E-02
0.39087071	9.2E-01	BC022687	0.73275755	1.6E-01
0.39076014	4.9E-01	Gmfg	0.73262145	1.2E-01
0.39030047	6.5E-01	2900006K08F	0.73159425	1.2E-01
0.39018083	8.0E-01	L3mbtl2	0.73119448	1.6E-01
0.39017702	8.0E-01	Iqca	0.7294993	6.0E-02
0.38986241	8.0E-01	Myh10	0.72928652	3.5E-02
0.3898543	6.5E-01	Dtl	0.72763159	6.0E-02
0.38823677	2.9E-01	Ypel1	0.72762026	1.2E-01
0.38816665	6.5E-01	Meig1	0.72694264	9.9E-03
0.38811482	6.5E-01	Tal2	0.72584544	6.0E-02
0.38776026	5.5E-01	Lrdd	0.72401358	6.0E-02
0.38757869	6.5E-01	Tmem29	0.72381049	1.2E-01
0.38685403	6.5E-01	Wdr78	0.72084762	9.9E-03
0.38635046	8.0E-01	Ccdc108	0.72077601	1.2E-01
0.38592999	3.3E-01	Serac1	0.71804032	1.6E-01
0.38554449	1.5E-01	Mast2	0.7097803	3.5E-02
0.38530241	3.9E-02	Gm7173	0.70920063	1.2E-01
0.38485412	2.9E-01	Iqub	0.70489531	1.2E-01
0.38421836	5.8E-01	Nek4	0.70475141	9.9E-03
0.38367035	6.5E-01	Sass6	0.70119033	2.2E-01
0.38346975	6.5E-01	Ccdc17	0.69934232	3.5E-02
0.38251603	6.5E-01	Tmem201	0.699137	1.6E-01

0.38128328	2.5E-01 Fam161b	0.69812158	1.6E-01
0.38097181	9.0E-02 Ccdc114	0.69803213	1.2E-01
0.38094803	2.9E-01 Pih1d2	0.69569529	9.9E-03
0.38091913	5.5E-01 Ralgps2	0.69543824	1.2E-01
0.38051885	9.2E-01 C530005A16f	0.69513009	1.2E-01
0.38004701	6.5E-01 Cep170	0.69240794	3.5E-02
0.3799218	6.5E-01 Slc1a4	0.69148805	6.0E-02
0.37949011	6.5E-01 Cntrob	0.68939247	6.0E-02
0.37936182	6.5E-01 RbmX2	0.68806584	1.5E-01
0.37846368	6.8E-01 Rabl5	0.6836983	8.0E-02
0.37815147	6.5E-01 Nphp1	0.67940988	1.6E-01
0.37777542	3.3E-01 A330021E22F	0.67928662	1.6E-01
0.37521472	8.0E-01 Lass6	0.67856883	6.0E-02
0.37510604	5.5E-01 Slc38a1	0.67853583	6.0E-02
0.37484397	4.3E-01 1190005F20F	0.67793485	5.4E-02
0.37411204	9.0E-02 Nln	0.67679862	3.5E-02
0.37340192	4.6E-01 Tmem107	0.67504134	1.3E-01
0.37254484	6.5E-01 Ublcp1	0.67389855	8.0E-02
0.37154358	6.5E-01 Plch1	0.6726173	6.0E-02
0.37103566	8.0E-01 Sdccag8	0.67091636	1.2E-01
0.37095629	8.0E-01 Spag6	0.67090804	9.9E-03
0.37031548	9.2E-01 Phc1	0.66879908	2.7E-01
0.36973158	6.8E-01 Tsga14	0.66678475	6.0E-02
0.36925999	9.2E-01 Fam118a	0.66647241	2.7E-01
0.36911531	6.5E-01 Lig1	0.66610576	5.4E-02
0.36835889	8.0E-01 Scrib	0.66495726	2.2E-01
0.36831372	6.8E-01 Tsr1	0.66489399	3.2E-01
0.36817863	1.4E-01 Prodh	0.66082934	1.2E-01
0.36801735	9.2E-01 Haus4	0.65976724	1.6E-01
0.36744252	6.5E-01 Gm20604	0.65938785	6.0E-02
0.36730605	1.0E+00 Alms1-ps2	0.65780792	1.2E-01
0.3672377	6.5E-01 Myb	0.65654675	9.9E-03
0.36692162	6.5E-01 Pla2g4a	0.65428565	1.0E-01
0.36659952	6.5E-01 Fbxo36	0.65243272	1.6E-01
0.36647307	9.2E-01 Rangrf	0.64959515	2.2E-02
0.36640005	6.5E-01 Poli	0.64742094	2.2E-01
0.3649638	6.5E-01 Coro2a	0.64637612	6.0E-02
0.36477693	6.5E-01 Rab3ip	0.64560199	6.0E-02
0.36462427	3.3E-01 Pno1	0.64409735	6.0E-02
0.3641153	2.4E-01 4833427G06f	0.64259752	1.2E-01
0.3638045	8.0E-01 Zfp54	0.64234043	4.5E-01
0.3637708	4.3E-01 Ttc25	0.64177532	1.2E-01
0.36368163	8.0E-01 Lmln	0.64092416	1.2E-01
0.36356988	4.9E-01 Ankrd32	0.640024	1.3E-01
0.36318801	9.2E-01 Fsip1	0.63845074	6.0E-02
0.36313041	3.8E-01 Odf3b	0.63824828	6.0E-02
0.36278787	4.3E-01 Chek2	0.63557405	1.2E-01
0.36277009	9.2E-01 Kcnip4	0.63220448	6.0E-02

0.36267685	6.8E-01 Dcdc2a	0.62636607	6.0E-02
0.36222158	2.9E-01 Bin3	0.62576966	2.7E-01
0.36218094	6.5E-01 Cep164	0.62498397	5.4E-02
0.36216439	6.5E-01 Oraov1	0.62224631	1.6E-01
0.36177174	5.8E-01 Spa17	0.62122138	1.0E-01
0.36137484	8.0E-01 Pacrg	0.62070062	1.2E-01
0.3611021	6.5E-01 Gm166	0.61989381	2.2E-01
0.36087033	2.5E-01 3830408C21F	0.61989147	2.2E-01
0.36076688	8.0E-01 Nudc	0.61875005	2.3E-01
0.35955929	6.5E-01 Wdr90	0.61829048	1.6E-01
0.3595089	4.3E-01 Atr	0.61770426	1.6E-01
0.35911281	8.0E-01 Flrt1	0.61741851	6.0E-02
0.35888668	9.2E-01 Anxa8	0.61712928	3.2E-01
0.35855266	9.2E-01 Wdr67	0.61666108	3.2E-01
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0.35809802	4.6E-01 Dixdc1	0.61386479	1.6E-01
0.35636374	6.5E-01 Dynlrb2	0.61381587	1.5E-01
0.35540677	4.6E-01 Heatr5a	0.61364728	1.0E-01
0.35526975	6.5E-01 Lypd6b	0.60842102	1.6E-01
0.35481558	8.0E-01 Isyna1	0.60795434	2.2E-01
0.35477714	8.9E-01 Dnahc8	0.60775587	6.0E-02
0.3547033	4.9E-01 Scit1	0.60740154	3.2E-01
0.35370485	9.2E-01 Ccdc104	0.6065731	2.3E-01
0.35335776	9.5E-01 Cc2d2a	0.60576529	6.0E-02
0.35313795	7.5E-01 Cep152	0.60570842	3.5E-02
0.35209641	3.7E-02 Gpn2	0.60521041	2.7E-01
0.35159392	9.2E-01 Sgk3	0.60441305	1.6E-01
0.35157257	1.0E+00 Ccdc41	0.60258332	3.5E-02
0.35127879	9.2E-01 Ahsa1	0.60210886	8.0E-02
0.35002168	5.5E-01 Trp53inp1	0.60013009	1.5E-01
0.34961465	9.2E-01 Abhd14a	0.59964795	2.2E-01
0.34932203	6.5E-01 Efcab2	0.59911249	1.6E-01
0.34878595	9.5E-01 Tctex1d2	0.5986098	1.0E-01
0.34859783	6.5E-01 1110008L16R	0.59825982	9.9E-03
0.34840986	1.0E+00 Cklf	0.59821784	5.4E-02
0.34812721	5.5E-01 Gm15800	0.597388	1.2E-01
0.34812385	9.0E-01 Oxa1l	0.59700652	2.2E-01
0.34810727	9.2E-01 Hspa4l	0.59469646	3.2E-01
0.34784591	1.0E+00 Jag1	0.59297971	2.6E-01
0.34772052	6.5E-01 2010015L04R	0.59225868	6.0E-02
0.34729869	6.5E-01 Ccdc151	0.59192131	6.0E-02
0.34658401	9.2E-01 Ift74	0.5917743	1.2E-01
0.34638252	6.5E-01 Aldh3b1	0.58942973	3.2E-01
0.34609012	1.0E+00 Ccdc146	0.58886232	2.7E-01
0.34539712	8.0E-01 Sord	0.58684849	3.2E-01
0.34486288	1.6E-01 6330503K22F	0.58629657	4.5E-01
0.34481231	9.2E-01 Mycbp	0.58333495	1.9E-01
0.34456633	6.5E-01 Bicd1	0.58307589	2.2E-01

0.34407859	9.2E-01 Rab7l1	0.58137244	2.2E-02
0.34366927	2.5E-01 Ets1	0.58049361	5.4E-02
0.34280758	1.0E+00 Pex3	0.57871836	1.6E-01
0.34231916	6.8E-01 Parn	0.57490332	2.2E-01
0.34210607	1.0E+00 Wbp7	0.57481095	3.2E-01
0.3411574	6.5E-01 Pom121	0.57263955	3.2E-01
0.34058718	1.0E+00 Morn2	0.57010291	8.0E-02
0.33979782	1.0E+00 1500002O10F	0.56999519	3.5E-01
0.33939573	6.5E-01 1600029I14R	0.56999519	3.5E-01
0.33938505	1.3E-01 1700001L19R	0.56999519	3.5E-01
0.33900124	6.5E-01 1700011H14F	0.56999519	3.5E-01
0.33886518	2.9E-01 1700019D03F	0.56999519	3.5E-01
0.33863619	6.8E-01 1700019L03F	0.56999519	3.5E-01
0.33802768	8.0E-01 1700020N18F	0.56999519	3.5E-01
0.33796682	8.0E-01 1700026D08F	0.56999519	3.5E-01
0.33787213	1.0E+00 1700028P14F	0.56999519	3.5E-01
0.33709033	6.5E-01 1700066M21I	0.56999519	3.5E-01
0.33640019	6.5E-01 1700084C01F	0.56999519	3.5E-01
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0.33616654	9.2E-01 2210020M01I	0.56999519	3.5E-01
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0.33565313	4.9E-01 2900002K06F	0.56999519	3.5E-01
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0.33486264	9.2E-01 4930427A07F	0.56999519	3.5E-01
0.33483454	7.4E-01 4930455F16F	0.56999519	3.5E-01
0.33417448	1.0E+00 4930503B20F	0.56999519	3.5E-01
0.33404348	6.5E-01 4930558J18R	0.56999519	3.5E-01
0.33370565	1.3E-01 4931429I11R	0.56999519	3.5E-01
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0.33276486	4.3E-01 9230112D13F	0.56999519	3.5E-01
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0.33200746	1.0E+00 AA467197	0.56999519	3.5E-01
0.33124313	1.0E+00 Aard	0.56999519	3.5E-01
0.33106222	4.9E-01 Acsm1	0.56999519	3.5E-01
0.33092715	6.5E-01 Actl7b	0.56999519	3.5E-01
0.33089436	9.8E-01 Agr3	0.56999519	3.5E-01
0.3306967	6.5E-01 Agtr1a	0.56999519	3.5E-01
0.33036456	6.5E-01 Ak8	0.56999519	3.5E-01
0.33014766	7.5E-01 Amn	0.56999519	3.5E-01
0.33013945	9.2E-01 Ankrd42	0.56999519	3.5E-01
0.32928875	4.3E-01 Anubl1	0.56999519	3.5E-01
0.32906005	8.0E-01 Aox1	0.56999519	3.5E-01
0.32895967	6.5E-01 Apobr	0.56999519	3.5E-01
0.3286616	4.3E-01 Armcx6	0.56999519	3.5E-01

0.32863643	1.0E+00	Asb17	0.56999519	3.5E-01
0.32789925	4.3E-01	Aspm	0.56999519	3.5E-01
0.32738117	4.3E-01	Atp10b	0.56999519	3.5E-01
0.32682568	6.2E-01	Atp13a5	0.56999519	3.5E-01
0.32662348	9.2E-01	Azi1	0.56999519	3.5E-01
0.32589347	2.4E-01	BC048403	0.56999519	3.5E-01
0.32588867	9.2E-01	BC048602	0.56999519	3.5E-01
0.32513115	9.8E-01	BC049715	0.56999519	3.5E-01
0.32505318	1.0E+00	Bcl2l10	0.56999519	3.5E-01
0.32502288	2.5E-01	Bcl2l14	0.56999519	3.5E-01
0.32446129	8.9E-01	Bok	0.56999519	3.5E-01
0.32440166	8.0E-01	Bub1b	0.56999519	3.5E-01
0.32431041	1.0E+00	Bysl	0.56999519	3.5E-01
0.3238659	5.5E-01	C1ra	0.56999519	3.5E-01
0.32369405	2.9E-01	C8g	0.56999519	3.5E-01
0.32350179	2.5E-01	Calcoco2	0.56999519	3.5E-01
0.32331595	9.2E-01	Capn6	0.56999519	3.5E-01
0.3223361	1.0E+00	Caps2	0.56999519	3.5E-01
0.32214515	1.0E+00	Car10	0.56999519	3.5E-01
0.32213471	1.0E+00	Casc1	0.56999519	3.5E-01
0.32153366	9.2E-01	Casc5	0.56999519	3.5E-01
0.32043268	6.5E-01	Ccdc103	0.56999519	3.5E-01
0.32043016	6.8E-01	Ccdc11	0.56999519	3.5E-01
0.31981489	2.8E-01	Ccdc153	0.56999519	3.5E-01
0.31899639	1.0E+00	Ccdc158	0.56999519	3.5E-01
0.31888911	1.0E+00	Ccdc164	0.56999519	3.5E-01
0.31842873	8.0E-01	Ccdc21	0.56999519	3.5E-01
0.31842254	9.2E-01	Ccdc24	0.56999519	3.5E-01
0.31823021	8.0E-01	Ccdc42b	0.56999519	3.5E-01
0.31818443	6.5E-01	Ccdc65	0.56999519	3.5E-01
0.31805209	9.0E-01	Ccdc74a	0.56999519	3.5E-01
0.31740664	1.0E+00	Ccdc89	0.56999519	3.5E-01
0.31736439	9.2E-01	Ccl20	0.56999519	3.5E-01
0.31723127	1.0E+00	Ccnb1	0.56999519	3.5E-01
0.31699671	9.2E-01	Cd177	0.56999519	3.5E-01
0.31694383	5.8E-01	Cd27	0.56999519	3.5E-01
0.31677641	1.0E+00	Cdca5	0.56999519	3.5E-01
0.3160085	8.0E-01	Cdk20	0.56999519	3.5E-01
0.31590989	9.2E-01	Cenpa	0.56999519	3.5E-01
0.31583832	7.5E-01	Cenpe	0.56999519	3.5E-01
0.31550222	6.5E-01	Cenph	0.56999519	3.5E-01
0.31530284	1.0E+00	Cenpk	0.56999519	3.5E-01
0.31515068	6.5E-01	Cenpp	0.56999519	3.5E-01
0.31496682	9.2E-01	Cenpv	0.56999519	3.5E-01
0.31491782	8.0E-01	Cep55	0.56999519	3.5E-01
0.3148264	4.3E-01	Cep97	0.56999519	3.5E-01
0.31476817	6.8E-01	Ces1b	0.56999519	3.5E-01
0.31462297	8.0E-01	Ces1c	0.56999519	3.5E-01

0.31461414	6.5E-01	Chga	0.56999519	3.5E-01
0.31443339	1.0E+00	Chrm1	0.56999519	3.5E-01
0.31399363	2.9E-01	Chst11	0.56999519	3.5E-01
0.31331897	8.0E-01	Cmb1	0.56999519	3.5E-01
0.31322563	7.5E-01	Cox10	0.56999519	3.5E-01
0.3130966	8.0E-01	Crispld2	0.56999519	3.5E-01
0.31241075	4.3E-01	Csf3r	0.56999519	3.5E-01
0.31173979	1.0E+00	Cxcl12	0.56999519	3.5E-01
0.31093413	9.2E-01	D1Ert622e	0.56999519	3.5E-01
0.31086618	1.0E+00	D2Ert750e	0.56999519	3.5E-01
0.31048964	3.3E-01	D330045A20I	0.56999519	3.5E-01
0.31046982	6.8E-01	D330050I16R	0.56999519	3.5E-01
0.31032222	1.0E+00	D6Mm5e	0.56999519	3.5E-01
0.3102891	1.0E+00	D730048J04F	0.56999519	3.5E-01
0.30997674	5.8E-01	Dapl1	0.56999519	3.5E-01
0.30985743	7.9E-01	Dcdc2b	0.56999519	3.5E-01
0.30971863	1.0E+00	Dhx58	0.56999519	3.5E-01
0.30941888	9.2E-01	Dlec1	0.56999519	3.5E-01
0.30833413	1.0E+00	Dlgap5	0.56999519	3.5E-01
0.30831784	4.8E-01	Dll4	0.56999519	3.5E-01
0.30823763	9.2E-01	Dlx4	0.56999519	3.5E-01
0.30804038	1.0E+00	Dnahc1	0.56999519	3.5E-01
0.30796699	1.0E+00	Dnahc5	0.56999519	3.5E-01
0.30749303	1.0E+00	Dnahc6	0.56999519	3.5E-01
0.30732442	9.2E-01	Dnaic1	0.56999519	3.5E-01
0.30726374	9.2E-01	Dnaic2	0.56999519	3.5E-01
0.3071129	9.0E-01	Dnd1	0.56999519	3.5E-01
0.30701894	1.0E+00	Dpy19l2	0.56999519	3.5E-01
0.30622175	9.2E-01	Dpysl5	0.56999519	3.5E-01
0.30619472	4.6E-01	Dydc2	0.56999519	3.5E-01
0.30562308	9.0E-01	E230008N13F	0.56999519	3.5E-01
0.30556538	9.2E-01	E230019M04I	0.56999519	3.5E-01
0.30556374	1.0E+00	Ecscr	0.56999519	3.5E-01
0.30553429	9.2E-01	Efhb	0.56999519	3.5E-01
0.30546765	6.5E-01	Efna2	0.56999519	3.5E-01
0.30531012	1.0E+00	Eml1	0.56999519	3.5E-01
0.304638	1.0E+00	Ephb2	0.56999519	3.5E-01
0.30445485	9.2E-01	Erp27	0.56999519	3.5E-01
0.30436468	9.2E-01	Exo1	0.56999519	3.5E-01
0.30407864	8.0E-01	Fam109b	0.56999519	3.5E-01
0.30385521	9.2E-01	Fam132b	0.56999519	3.5E-01
0.3038032	1.0E+00	Fam149a	0.56999519	3.5E-01
0.30362695	6.5E-01	Fam154b	0.56999519	3.5E-01
0.3034962	6.5E-01	Fam179a	0.56999519	3.5E-01
0.30347316	6.5E-01	Fam19a5	0.56999519	3.5E-01
0.3030543	1.0E+00	Fbxo21	0.56999519	3.5E-01
0.30278863	4.3E-01	Fgl1	0.56999519	3.5E-01
0.30263749	8.0E-01	Flywch1	0.56999519	3.5E-01

0.30234086	1.0E+00	Fmn2	0.56999519	3.5E-01
0.30222762	9.2E-01	Fxyd1	0.56999519	3.5E-01
0.30173824	4.3E-01	G630016D24	0.56999519	3.5E-01
0.30157458	8.0E-01	Galnt6	0.56999519	3.5E-01
0.30155863	1.0E+00	Gemin6	0.56999519	3.5E-01
0.30123527	9.5E-01	Ghrl	0.56999519	3.5E-01
0.30121214	6.5E-01	Gja6	0.56999519	3.5E-01
0.30117111	8.0E-01	Glb1l2	0.56999519	3.5E-01
0.30103294	9.2E-01	Glipr1	0.56999519	3.5E-01
0.30059269	5.4E-01	Glis3	0.56999519	3.5E-01
0.30030778	7.5E-01	Glra3	0.56999519	3.5E-01
0.30025719	1.0E+00	Glrp1	0.56999519	3.5E-01
		Glt1d1	0.56999519	3.5E-01
		Gm10046	0.56999519	3.5E-01
		Gm10267	0.56999519	3.5E-01
		Gm10560	0.56999519	3.5E-01
		Gm11487	0.56999519	3.5E-01
		Gm11837	0.56999519	3.5E-01
		Gm12709	0.56999519	3.5E-01
		Gm13308	0.56999519	3.5E-01
		Gm14446	0.56999519	3.5E-01
		Gm1661	0.56999519	3.5E-01
		Gm216	0.56999519	3.5E-01
		Gm3139	0.56999519	3.5E-01
		Gm3286	0.56999519	3.5E-01
		Gm3448	0.56999519	3.5E-01
		Gm428	0.56999519	3.5E-01
		Gm4285	0.56999519	3.5E-01
		Gm606	0.56999519	3.5E-01
		Gm872	0.56999519	3.5E-01
		Gm9705	0.56999519	3.5E-01
		Gm9781	0.56999519	3.5E-01
		Gstcd	0.56999519	3.5E-01
		Gtf2a1l	0.56999519	3.5E-01
		H1fnt	0.56999519	3.5E-01
		H2-T22	0.56999519	3.5E-01
		Hcn2	0.56999519	3.5E-01
		Hdac8	0.56999519	3.5E-01
		Hirip3	0.56999519	3.5E-01
		Hpgd	0.56999519	3.5E-01
		Hrasls	0.56999519	3.5E-01
		Hspb6	0.56999519	3.5E-01
		Hspb9	0.56999519	3.5E-01
		Hyls1	0.56999519	3.5E-01
		Iglon5	0.56999519	3.5E-01
		Il27	0.56999519	3.5E-01
		Inca1	0.56999519	3.5E-01
		Iqcd	0.56999519	3.5E-01

Itgae	0.56999519	3.5E-01
Itgam	0.56999519	3.5E-01
Itgb4	0.56999519	3.5E-01
Jsrp1	0.56999519	3.5E-01
Kcnk7	0.56999519	3.5E-01
Kif2c	0.56999519	3.5E-01
Kif6	0.56999519	3.5E-01
Kntc1	0.56999519	3.5E-01
Lace1	0.56999519	3.5E-01
Lce1a1	0.56999519	3.5E-01
Lfng	0.56999519	3.5E-01
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Lrrc17	0.56999519	3.5E-01
Lrrc18	0.56999519	3.5E-01
Lrrc43	0.56999519	3.5E-01
Lrrc56	0.56999519	3.5E-01
Lrrc6	0.56999519	3.5E-01
Lrrc9	0.56999519	3.5E-01
Ltbp2	0.56999519	3.5E-01
Mcm3	0.56999519	3.5E-01
Mcph1	0.56999519	3.5E-01
Mdh1b	0.56999519	3.5E-01
Med12l	0.56999519	3.5E-01
Mfsd12	0.56999519	3.5E-01
Mir1192	0.56999519	3.5E-01
Mks1	0.56999519	3.5E-01
Morn4	0.56999519	3.5E-01
Mpp4	0.56999519	3.5E-01
Mrs2	0.56999519	3.5E-01
Mthfd2l	0.56999519	3.5E-01
Mtr	0.56999519	3.5E-01
Mtss1l	0.56999519	3.5E-01
Muc5b	0.56999519	3.5E-01
Myo5a	0.56999519	3.5E-01
Nags	0.56999519	3.5E-01
Naip1	0.56999519	3.5E-01
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Neto2	0.56999519	3.5E-01
Neurl1a	0.56999519	3.5E-01
Nhedc1	0.56999519	3.5E-01
Nr5a2	0.56999519	3.5E-01
Nrip3	0.56999519	3.5E-01
Ntsr2	0.56999519	3.5E-01
Nudt12	0.56999519	3.5E-01
Oip5	0.56999519	3.5E-01
Oit1	0.56999519	3.5E-01
Olfr19	0.56999519	3.5E-01
Olfr798	0.56999519	3.5E-01

Osbp13	0.56999519	3.5E-01
Palb2	0.56999519	3.5E-01
Pappa2	0.56999519	3.5E-01
Pbk	0.56999519	3.5E-01
Pgbd5	0.56999519	3.5E-01
Pklr	0.56999519	3.5E-01
Poteg	0.56999519	3.5E-01
Prdm8	0.56999519	3.5E-01
Prkar1b	0.56999519	3.5E-01
Prkg2	0.56999519	3.5E-01
Prr19	0.56999519	3.5E-01
Prss48	0.56999519	3.5E-01
Pyroxd2	0.56999519	3.5E-01
Rac2	0.56999519	3.5E-01
Rad51ap1	0.56999519	3.5E-01
Rad54b	0.56999519	3.5E-01
Rd3	0.56999519	3.5E-01
Rel	0.56999519	3.5E-01
Rgs4	0.56999519	3.5E-01
Rhobtb2	0.56999519	3.5E-01
Rhpn1	0.56999519	3.5E-01
Ribc1	0.56999519	3.5E-01
Rinl	0.56999519	3.5E-01
Rtdr1	0.56999519	3.5E-01
Scarna6	0.56999519	3.5E-01
Scgn	0.56999519	3.5E-01
Scml2	0.56999519	3.5E-01
Scn3b	0.56999519	3.5E-01
Scrn3	0.56999519	3.5E-01
Sfrp1	0.56999519	3.5E-01
Sgol2	0.56999519	3.5E-01
Sh3bp1	0.56999519	3.5E-01
Sidt1	0.56999519	3.5E-01
Slc10a2	0.56999519	3.5E-01
Slc10a5	0.56999519	3.5E-01
Slc35e4	0.56999519	3.5E-01
Slc38a3	0.56999519	3.5E-01
Slc38a6	0.56999519	3.5E-01
Slc47a2	0.56999519	3.5E-01
Spag16	0.56999519	3.5E-01
Spag5	0.56999519	3.5E-01
Spag8	0.56999519	3.5E-01
Spata18	0.56999519	3.5E-01
Spata20	0.56999519	3.5E-01
Spc25	0.56999519	3.5E-01
Spin2	0.56999519	3.5E-01
Spsb4	0.56999519	3.5E-01
Srgn	0.56999519	3.5E-01

Stard5	0.56999519	3.5E-01
Stk32a	0.56999519	3.5E-01
Syt17	0.56999519	3.5E-01
Sytl1	0.56999519	3.5E-01
Tacc3	0.56999519	3.5E-01
Tbc1d22b	0.56999519	3.5E-01
Tbcc	0.56999519	3.5E-01
Tcte3	0.56999519	3.5E-01
Tctn3	0.56999519	3.5E-01
Tekt2	0.56999519	3.5E-01
Tha1	0.56999519	3.5E-01
Thrb	0.56999519	3.5E-01
Tiam1	0.56999519	3.5E-01
Tmem102	0.56999519	3.5E-01
Tmem104	0.56999519	3.5E-01
Tmem146	0.56999519	3.5E-01
Tmem38a	0.56999519	3.5E-01
Tmem48	0.56999519	3.5E-01
Tmem52	0.56999519	3.5E-01
Tmprss9	0.56999519	3.5E-01
Tnip1	0.56999519	3.5E-01
Tnnt1	0.56999519	3.5E-01
Tomm20l	0.56999519	3.5E-01
Trib2	0.56999519	3.5E-01
Trip13	0.56999519	3.5E-01
Trnp1	0.56999519	3.5E-01
Troap	0.56999519	3.5E-01
Trp73	0.56999519	3.5E-01
Ttc12	0.56999519	3.5E-01
Ttc16	0.56999519	3.5E-01
Ttc22	0.56999519	3.5E-01
Ttc29	0.56999519	3.5E-01
Ttc30a2	0.56999519	3.5E-01
Ttk	0.56999519	3.5E-01
Tubg2	0.56999519	3.5E-01
Txndc6	0.56999519	3.5E-01
Ubash3a	0.56999519	3.5E-01
Ubxn10	0.56999519	3.5E-01
Ugt8a	0.56999519	3.5E-01
Uhmk1	0.56999519	3.5E-01
Unc5c	0.56999519	3.5E-01
Vash2	0.56999519	3.5E-01
Vit	0.56999519	3.5E-01
Wdr38	0.56999519	3.5E-01
Wdr65	0.56999519	3.5E-01
Wdr73	0.56999519	3.5E-01
Wdr96	0.56999519	3.5E-01
Xk	0.56999519	3.5E-01

Xlr4b	0.56999519	3.5E-01
Ysk4	0.56999519	3.5E-01
Zcchc4	0.56999519	3.5E-01
Zfp474	0.56999519	3.5E-01
Zfp770	0.56999519	3.5E-01
Zscan12	0.56999519	3.5E-01
Rad23a	0.56973878	1.5E-01
Rps6ka5	0.56947875	4.9E-01
Gm5796	0.56920971	4.9E-01
9130206I24R	0.56890296	4.9E-01
Tsen15	0.56880007	4.9E-01
Rsph3b	0.56814188	1.2E-01
Morn5	0.56730537	4.9E-01
D630041G03I	0.56698868	4.9E-01
Pde9a	0.56670592	4.9E-01
AW554918	0.56657071	2.7E-01
Ndc80	0.56648057	4.9E-01
Hspa1l	0.56561486	4.9E-01
Rbp4	0.56499251	1.2E-01
Haus5	0.56471482	4.9E-01
Akr7a5	0.56465558	1.2E-01
Lrrc50	0.56432664	4.9E-01
Asap2	0.56422089	2.2E-01
Tmem138	0.56398076	3.5E-01
Gm2897	0.56363924	5.8E-01
Flnb	0.56347355	8.0E-02
Chn1	0.56283399	4.9E-01
Gpr85	0.56278973	4.9E-01
Tnfrsf1b	0.56262711	4.9E-01
Rgs3	0.56251847	4.9E-01
Rsl24d1	0.56243553	3.5E-01
1110004E09F	0.56213891	1.2E-01
Tmem194	0.56164685	5.8E-01
Ndufaf3	0.56093256	1.5E-01
Tyro3	0.56056475	4.9E-01
Katnal1	0.56037428	5.8E-01
2610301B20F	0.56032503	1.5E-01
Ssrp1	0.56015659	1.6E-01
Daglb	0.55920397	2.2E-01
Afap1	0.55890996	1.0E-01
Ap3m2	0.558125	4.9E-01
Phf17	0.55723418	4.9E-01
2500004C02F	0.55676909	1.6E-01
Slc12a4	0.55644493	4.9E-01
H2afx	0.5563885	3.5E-01
4930578N16F	0.5560854	2.2E-01
Cox6b2	0.55603432	1.3E-01
Ttn	0.55583331	4.9E-01

Acvr1b	0.55529392	4.9E-01
Tppp3	0.55464611	3.5E-01
Tcea2	0.55453203	4.9E-01
Cenpf	0.55403265	4.9E-01
Gpd1	0.5539336	1.2E-01
Spg21	0.55367921	4.5E-01
2610528E23F	0.5533893	3.5E-01
5830418K08F	0.55313946	1.9E-01
Cars	0.55270241	4.9E-01
Hist1h2ae	0.55255334	3.2E-01
Rars	0.55182958	3.5E-01
Kctd12	0.54838037	6.0E-02
Foxo1	0.54803107	1.0E-01
Fbxl4	0.54734992	5.8E-01
Rrm1	0.54690527	1.2E-01
Rsph3a	0.54602652	1.2E-01
F2r11	0.54474861	3.5E-01
Pgap3	0.54473793	4.9E-01
Stip1	0.54447244	1.9E-01
Spata2	0.54345048	3.5E-01
Dsel	0.54336008	4.9E-01
Hace1	0.54212126	3.2E-01
5730494M16I	0.54198518	1.6E-01
4732415M23I	0.54182921	1.2E-01
B9d1	0.54167632	2.2E-01
Clec11a	0.54114788	4.9E-01
Irak1bp1	0.54048781	5.4E-02
Pddc1	0.54048593	2.2E-01
Fam190a	0.53996034	5.8E-01
Cyp2s1	0.53985559	2.2E-01
Dgcr6	0.53943125	1.0E-01
3110082I17R	0.53860341	1.2E-01
1110001A16F	0.53806001	1.5E-01
Adi1	0.53775449	1.0E-01
1700094D03I	0.53743446	2.2E-01
Mterfd3	0.53695909	2.7E-01
Gm3500	0.5363798	5.8E-01
Fgfr1op	0.53566425	1.5E-01
Fam193b	0.53565464	7.6E-01
Nsg1	0.53549831	4.9E-01
Rhou	0.53532389	4.9E-01
Htr2b	0.53481135	4.9E-01
A730008H23I	0.53465796	3.2E-01
Tfdp1	0.53436739	1.2E-01
Cntd1	0.53304662	7.2E-01
Alkbh2	0.53302164	4.9E-01
Aldh1a1	0.53277134	8.0E-02
Vill	0.53169628	3.5E-01

Fbxo30	0.53159847	1.2E-01
Khdrbs3	0.53109355	1.2E-01
Gpx2	0.53102804	4.9E-01
Ccdc138	0.53084527	1.6E-01
Pnck	0.53065564	1.6E-01
Kif3b	0.53004203	6.0E-02
Fam118b	0.52947001	3.2E-01
Gmcl1	0.52877593	6.6E-01
Ccdc51	0.52833692	4.9E-01
1810074P20F	0.5280723	2.7E-01
Mycl1	0.52767047	5.4E-02
Dnajc15	0.52760801	8.0E-02
Dos	0.52736428	2.7E-01
Tulp3	0.52736362	5.8E-01
Dpagt1	0.52713341	2.7E-01
Ccdc78	0.5270191	4.9E-01
Gm4566	0.52632387	4.9E-01
Alg11	0.52624544	2.3E-01
Zbed4	0.52519954	1.6E-01
Zfp330	0.52386535	2.3E-01
Agpat9	0.52378763	4.9E-01
Ap4b1	0.52293408	3.2E-01
Eepd1	0.5220581	4.9E-01
Dnahc10	0.52107461	4.9E-01
Kpna1	0.52089419	1.9E-01
Prdm15	0.52049084	4.9E-01
Wdr76	0.52006776	3.5E-02
Cpeb2	0.51936633	4.9E-01
Bola1	0.5190432	6.0E-02
Zfhx2	0.51834351	5.8E-01
H2-Q10	0.51742873	4.9E-01
A430033K04F	0.51624026	4.9E-01
Atpbd4	0.51613015	1.2E-01
Trnt1	0.51609183	4.0E-01
Tmem231	0.51490771	2.2E-01
9130023H24F	0.51428715	2.7E-01
Sae1	0.51297479	8.0E-02
Iqsec2	0.5125338	4.9E-01
Ogg1	0.51213353	4.9E-01
Tmem144	0.51195431	4.9E-01
Cd83	0.51099259	5.8E-01
Dock8	0.51075127	5.8E-01
Mrpl39	0.51034345	1.6E-01
Gas2l3	0.51030675	1.6E-01
Zfp41	0.50862698	5.8E-01
Psmg2	0.50839871	2.2E-01
Oscp1	0.5078951	9.9E-03
Angptl7	0.50771823	4.9E-01

1700007K13F	0.507629	5.8E-01
Copg2	0.50670414	8.0E-02
Pygm	0.50612085	7.2E-01
Six1	0.50434815	4.9E-01
Prc1	0.50404939	2.2E-01
Wdr35	0.50321745	1.0E-01
Ciapin1	0.50273034	3.5E-02
Kif1a	0.50172692	4.9E-01
Nprl3	0.50165407	5.8E-01
Man2c1	0.50152088	5.8E-01
Pdxk	0.5010183	5.8E-01
Cryaa	0.50050687	4.9E-01
Ube2t	0.49958646	3.2E-01
Eri1	0.4994024	2.2E-01
Slc22a21	0.49916469	5.8E-01
2510003E04F	0.49759706	3.5E-01
Qser1	0.49757417	4.9E-01
Trp53	0.49741289	1.2E-01
Zfp329	0.49670818	8.1E-01
Atp6v1h	0.49569855	3.0E-01
Spice1	0.49558686	3.2E-01
Stx16	0.49488806	2.2E-01
Rpgr	0.49455008	2.7E-01
Pdgfrl	0.49419872	4.9E-01
Odf2	0.49411691	3.5E-01
Gzmm	0.49408248	6.6E-01
Ovol1	0.49280723	2.7E-01
Trit1	0.49273351	1.6E-01
B4galt5	0.49184244	5.8E-01
Ephx4	0.49156416	4.9E-01
Ccnj	0.49146126	4.9E-01
Lpar6	0.4906377	5.8E-01
Ankib1	0.49060323	6.6E-01
Pmf1	0.49053477	1.6E-01
Pak3	0.49053472	4.9E-01
Ddx39	0.49052626	3.5E-01
Upk2	0.4904167	4.9E-01
Tmem184c	0.49023262	7.2E-01
H1fx	0.4898904	4.9E-01
Rdbp	0.48987926	2.7E-01
Bbs2	0.48976697	4.9E-01
Plk4	0.48929279	4.9E-01
Il12rb2	0.48900179	2.2E-01
2410091C18F	0.48853558	2.6E-01
Erc6l	0.48807293	4.9E-01
Slc9a3r1	0.48776325	1.6E-01
Cmas	0.48703394	6.0E-02
Zfyve1	0.4866841	4.9E-01

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Cbx7	0.48626459	6.6E-01
Utp15	0.48568848	1.6E-01
Zfp821	0.48565622	2.7E-01
Naga	0.48478957	6.0E-02
Supv3l1	0.4847621	2.7E-01
Mudeng	0.48461951	4.9E-01
Mnt	0.48427928	1.6E-01
Pdyp	0.48377486	4.9E-01
Tfap4	0.48359446	5.8E-01
Ripk2	0.48295293	4.9E-01
Smarcad1	0.48292265	1.3E-01
Wrap53	0.48232875	5.4E-02
Mtap9	0.48227388	5.8E-01
Taf11	0.48151675	1.2E-01
Alms1	0.48132678	2.2E-01
Erbp2	0.48126695	6.0E-02
Rab36	0.48023741	4.9E-01
Cep192	0.47936184	3.2E-01
Dzip1l	0.4791936	2.7E-01
Klhl21	0.47906389	1.3E-01
Cep57l1	0.47898016	6.6E-01
Osgepl1	0.47866483	5.4E-02
Gm5918	0.47724821	1.6E-01
Edc4	0.47649443	8.0E-02
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Zfp51	0.47642732	6.6E-01
Gprc5c	0.47633291	5.8E-01
Slu7	0.47632644	2.2E-01
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Lin9	0.47526516	1.6E-01
Dhx30	0.47509743	3.5E-01
Rnf123	0.47375207	1.6E-01
Ttc8	0.47359253	2.7E-01
Actr6	0.47125656	4.0E-01
Pisd-ps3	0.47120763	3.5E-01
Calml4	0.47107493	4.9E-01
Rabl2	0.47102815	3.5E-02
Atat1	0.47023984	1.2E-01
Gtl3	0.46999195	2.2E-01
Tmprss13	0.469969	2.2E-01
Cetn2	0.46991375	3.0E-01
Slc25a19	0.4698832	4.9E-01
9530082P21F	0.46984773	1.6E-01
Nfkb1	0.46978351	3.5E-01
1110008J03R	0.46970087	1.2E-01
Impad1	0.46891314	2.6E-01
Tex10	0.46795626	4.9E-01

Zfp341	0.4678193	4.9E-01
Arc	0.46718945	3.5E-01
Gm16367	0.4669681	5.8E-01
Stxbp4	0.46687143	5.8E-01
Pcsk6	0.46559221	2.7E-01
Bmp8b	0.46508767	4.9E-01
Me2	0.46366507	6.6E-01
Eif2ak2	0.4635753	2.7E-01
2610015P09F	0.46346365	3.5E-01
Adam28	0.46266738	2.7E-01
Rhbdd3	0.46234973	4.9E-01
Dhx29	0.46225382	2.7E-01
Lgals12	0.46224077	5.8E-01
Eefsec	0.46191477	6.6E-01
Pbx4	0.46162319	1.0E-01
Wdr8	0.46135557	4.9E-01
Arid4a	0.46116368	2.6E-01
Ccdc61	0.46057397	2.2E-01
Rcbtb2	0.46002854	2.2E-01
Pxk	0.45979899	1.9E-01
Kif20a	0.45973305	4.9E-01
Terf1	0.4583253	3.5E-01
Ruvbl2	0.45776199	3.2E-01
Daf2	0.45774106	4.5E-01
Arhgap11a	0.45758754	4.9E-01
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Gbf1	0.45607995	1.3E-01
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Phrf1	0.45558762	3.5E-01
Dyx1c1	0.45533385	4.9E-01
Als2cr4	0.45514683	3.5E-01
Gyk	0.45507957	3.5E-01
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Cks1b	0.45403469	3.5E-01
Atp13a2	0.4535076	5.8E-01
Ehf	0.45349334	3.5E-01
Blzf1	0.4532798	6.0E-02
Ect2	0.45314505	1.0E-01
Snora81	0.45290204	6.0E-02
Kctd4	0.45259289	4.9E-01
Rbm19	0.45247956	6.6E-01
Zfp692	0.45211615	7.2E-01
Ipo7	0.45176155	3.5E-01
Zfyve9	0.45149209	4.9E-01
Tex9	0.44950683	5.8E-01
Tmem69	0.44892454	8.1E-01

Cenpj	0.44844834	3.5E-01
Efcab4a	0.44831186	6.6E-01
St14	0.44821313	3.5E-01
Aldh3a2	0.44813082	4.9E-01
Ccdc122	0.44769334	3.2E-01
Krr1	0.44700475	1.3E-01
Fkbp4	0.44698971	3.5E-01
Sorbs1	0.44691315	3.5E-01
Bmp2	0.44657707	6.6E-01
Acbd7	0.4463718	5.8E-01
Kif3a	0.44604541	1.5E-01
Rpf2	0.44562785	4.5E-01
Arhgap24	0.44513965	1.6E-01
Eif6	0.44465323	1.5E-01
2310007B03F	0.44356071	2.2E-01
Rnf170	0.44327436	3.5E-01
Ptgr2	0.44325333	3.5E-01
Znhit1	0.44307869	2.3E-01
Mta1	0.4429532	1.0E-01
Npm3	0.44278276	4.0E-01
Mblac1	0.44230413	4.9E-01
Ppp1r36	0.4417534	3.5E-02
G6pc3	0.44066567	3.5E-01
Ubl4	0.43972888	1.3E-01
Mogs	0.43943715	3.5E-01
Itga7	0.43938026	6.0E-02
Ccdc132	0.43935761	3.2E-01
Peg12	0.43935432	2.2E-01
Hsd17b14	0.43926451	4.9E-01
Spef1	0.43925909	7.2E-01
Cdc27	0.43918356	3.5E-01
Cbx2	0.4390427	4.9E-01
AI314180	0.43870657	1.6E-01
Tdp1	0.43850044	1.6E-01
Tep1	0.43737141	2.2E-01
Crim1	0.43682133	5.4E-02
Prr14	0.43668865	8.0E-02
Pcm1	0.43662023	4.4E-01
Bbs1	0.43661838	4.9E-01
Cspp1	0.43617722	3.0E-01
Ddit3	0.43603086	4.0E-01
Dgke	0.43602094	5.8E-01
Lrrfip2	0.43568204	3.5E-01
Syt11	0.43532283	4.9E-01
Fkbp1	0.43508087	5.8E-01
Lonp2	0.43494144	1.9E-01
Noxa1	0.43488292	5.8E-01
1700123020F	0.43423103	1.6E-01

Ascc1	0.43418467	2.2E-01
Tubb4b	0.43415536	3.5E-01
Glt8d1	0.43398955	6.0E-02
Alg5	0.43387802	1.3E-01
Eif5b	0.43345233	4.9E-01
4930539J05R	0.43339909	7.6E-01
Inpp1	0.43293552	4.9E-01
Adck3	0.43268548	2.7E-01
Six4	0.43245543	2.2E-01
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Amacr	0.43183636	6.6E-01
Hectd3	0.4317191	6.6E-01
Ttc30b	0.43132647	5.8E-01
Tagap	0.42993331	1.5E-01
Napg	0.42904312	1.6E-01
Tagap1	0.42833885	1.9E-01
Txndc12	0.42832362	1.2E-01
Ift88	0.42771642	3.5E-01
Hipk1	0.42759175	3.5E-01
Maged2	0.42736518	1.2E-01
Haghl	0.42683859	2.7E-01
7530420F21F	0.42641833	4.9E-01
Zfp362	0.42577445	7.2E-01
Orc3	0.42476966	4.5E-01
Meaf6	0.42470275	2.2E-01
Aasdhppt	0.42443305	1.9E-01
Cep57	0.42434084	1.3E-01
1810063B05F	0.42417911	1.5E-01
Hpx	0.42260161	7.2E-01
Ttc21a	0.42236756	4.9E-01
Ermp1	0.42231197	3.5E-01
Rasl2-9-ps	0.42195822	5.8E-01
Prrg4	0.42187265	3.2E-01
Kif24	0.42146048	6.6E-01
5930403L14R	0.42125777	5.8E-01
Api5	0.42083046	1.6E-01
Psm10	0.42080571	3.5E-01
Pfdn2	0.42039866	1.9E-01
Rfx3	0.41973623	3.5E-01
Ercc3	0.41910864	2.7E-01
Gale	0.41865926	6.6E-01
Btf3l4	0.41864212	3.0E-01
Ccnc	0.41849728	1.3E-01
Taf9b	0.41834603	2.7E-01
Mkl2	0.41821169	2.7E-01
Ttf1	0.41818196	3.2E-01
Dpcd	0.41788205	4.5E-01
Ift52	0.41754755	1.0E-01

Zfp791	0.41751976	4.9E-01
Lnx1	0.41744125	5.8E-01
Fhdc1	0.4173771	3.5E-01
B3galt2	0.41645539	5.8E-01
Lypla2	0.4163643	3.5E-01
Ppil6	0.41635619	4.9E-01
Orai3	0.41606122	5.8E-01
Sharpin	0.41548686	2.2E-01
E2f5	0.41494394	3.5E-01
Acpl2	0.41483413	2.7E-01
Gnpnat1	0.41482164	3.5E-01
Tm7sf3	0.41481862	6.0E-02
Akt2	0.41437572	3.5E-01
2400003C14f	0.41419481	3.5E-01
Ctnnbl1	0.41381252	3.2E-01
Erc6	0.41308593	3.5E-01
Phf6	0.41286048	3.5E-01
Bmp8a	0.41263401	4.9E-01
Arl3	0.4126137	1.5E-01
Mia1	0.41222866	1.3E-01
Cul7	0.41209257	4.9E-01
Dtwd2	0.41207531	5.8E-01
Fyco1	0.41163324	3.5E-01
Commd9	0.41140269	3.5E-01
Cks2	0.41123675	4.0E-01
A730020E08f	0.41080729	4.9E-01
Ebp	0.40999518	3.5E-01
Bphl	0.40998091	3.5E-01
Uchl5	0.4092022	4.5E-01
4930526I15R	0.40862961	6.6E-01
Ica1	0.40820778	4.0E-01
Inpp5f	0.40797193	1.2E-01
5730437N04f	0.40731933	2.6E-01
Brd8	0.40727014	3.5E-01
Aurka	0.40687144	2.2E-01
Sox2	0.40654607	1.6E-01
Cyb561d2	0.40652941	8.0E-02
Fmod	0.40649365	1.6E-01
Fastkd2	0.40647411	3.2E-01
Poc5	0.40611071	5.8E-01
Lpar4	0.40603567	7.2E-01
Odf2l	0.40532518	3.5E-01
Atg16l1	0.40497749	3.5E-01
Fmo2	0.40491756	6.0E-02
Otud6b	0.40431455	1.3E-01
Slc25a17	0.40411785	3.5E-01
Ppp6c	0.40407935	1.6E-01
Kremen1	0.40348167	7.6E-01

Ccnb2	0.40338943	5.8E-01
AK010878	0.40325146	1.5E-01
Arl6ip6	0.40314592	4.9E-01
Hsd1l1	0.40291705	4.5E-01
Dtymk	0.40215673	2.7E-01
Gabrp	0.40204812	5.8E-01
Zfp59	0.40202284	4.9E-01
Mum1	0.40159445	7.2E-01
Nhsl1	0.40155975	3.5E-01
Gm11602	0.40140633	4.9E-01
Pygo2	0.40113366	3.5E-01
Cep63	0.40110501	1.6E-01
Emp3	0.40064892	1.6E-01
Strbp	0.39972103	2.3E-01
Pram1	0.39936063	4.9E-01
Tsga10	0.39894604	3.2E-01
B9d2	0.39871322	3.5E-01
Gm9833	0.39841335	4.9E-01
Edar	0.39802731	5.8E-01
Casp6	0.3978794	2.2E-01
Mfap1b	0.39783968	2.3E-01
Foxq1	0.39780459	3.5E-01
Noc4l	0.39760392	1.6E-01
Psmb8	0.39751973	2.7E-01
1110032A03F	0.39733909	2.6E-01
D430042O09	0.39723297	5.8E-01
Cenpw	0.3969916	3.5E-01
Ino80c	0.39632324	3.5E-01
Alkbh3	0.39615401	3.2E-01
2310008H09F	0.39605605	1.2E-01
1810048J11R	0.39593552	4.9E-01
Gm14326	0.39590015	3.5E-01
Vps33b	0.39588931	5.8E-01
Dnaja3	0.39582227	4.0E-01
Oma1	0.39575468	4.5E-01
Bcor1	0.39571918	4.9E-01
2700094K13F	0.39561277	3.2E-01
Pard6g	0.39530818	5.8E-01
Prkcsh	0.39518702	1.6E-01
Cxcl1	0.39510958	3.5E-01
Cd320	0.39490728	3.5E-01
Mipep	0.39359971	6.6E-01
Slmo2	0.39332269	3.0E-01
Commd5	0.39326846	3.2E-01
Yif1b	0.39316808	2.6E-01
Ccdc34	0.39291666	3.5E-02
Pisd-ps1	0.39272947	3.2E-01
Dnajc7	0.39269243	4.9E-01

Bccip	0.39177015	2.6E-01
Pqlc3	0.39141279	1.6E-01
Plekha7	0.39123786	6.6E-01
Ranbp1	0.3910796	2.7E-01
Uevld	0.39100215	6.6E-01
A930005H10f	0.39093418	2.2E-01
Fahd2a	0.39052605	3.2E-01
Tfb2m	0.39013483	4.0E-01
Elof1	0.38998502	3.0E-01
Cep350	0.38972819	1.9E-01
Scap	0.38899905	7.2E-01
Prps1	0.38856574	6.6E-01
Kctd3	0.38838422	3.5E-01
Nmt1	0.38826798	8.6E-01
Med31	0.38811473	3.0E-01
Eps8	0.38794317	3.5E-01
Id4	0.38774133	3.5E-01
2700054A10f	0.38766406	4.9E-01
Als2	0.38646683	1.6E-01
Kbtbd3	0.38574216	3.5E-01
Fam126b	0.38526347	4.5E-01
Mrpl24	0.38487776	3.5E-01
Exosc9	0.38431519	3.5E-01
Slc1a3	0.38404535	4.0E-01
Slc35e2	0.38370851	3.2E-01
Acot7	0.38347066	6.6E-01
Txndc11	0.38346672	7.2E-01
3200002M19f	0.38333993	7.2E-01
2410002O22f	0.38326062	3.5E-01
Zfp444	0.38323773	3.2E-01
Entpd5	0.38266544	7.2E-01
Zfp655	0.38258309	2.7E-01
2210404O07f	0.38219413	1.6E-01
Naa35	0.38197266	3.2E-01
Rnd3	0.38161743	3.2E-01
Pole3	0.38157667	2.2E-01
Arl6	0.38152732	1.6E-01
Mios	0.38080122	5.8E-01
Ift46	0.38065925	1.9E-01
Pisd	0.38053016	4.9E-01
Ipo9	0.38021257	3.5E-01
2610528J11R	0.38009789	1.5E-01
Mre11a	0.37989075	7.2E-01
Bcl2l12	0.37971456	3.5E-01
Appl2	0.37906489	2.7E-01
Adsl	0.3788735	4.0E-01
Pfn2	0.37887061	1.5E-01
Zrsr2	0.378817	1.2E-01

Pola1	0.37876308	5.8E-01
Ccdc18	0.37860291	3.5E-01
BC023829	0.37850884	2.2E-01
Gstm4	0.37807443	4.9E-01
Alkbh6	0.3780325	2.3E-01
Nabl	0.3779314	3.5E-01
Abcf2	0.3778324	3.5E-01
Gnl1	0.37715422	7.6E-01
Psip1	0.37715004	1.3E-01
Tec	0.37707304	2.7E-01
1700088E04F	0.37701793	3.5E-01
Dap3	0.37690238	1.0E-01
Impa1	0.37689596	1.5E-01
Nlgn2	0.37676986	5.8E-01
Nfatc2ip	0.37655284	3.2E-01
Thoc3	0.37639178	6.6E-01
2410001C21F	0.37635283	2.3E-01
Uba3	0.37552316	1.6E-01
Ddt	0.37514456	3.5E-01
Scoc	0.37505531	1.5E-01
Tmem53	0.37495798	3.2E-01
Dopey1	0.37494721	4.9E-01
Srpk1	0.37490883	4.0E-01
Gsto1	0.37482367	2.3E-01
Megf6	0.37479254	6.6E-01
Ttc17	0.37478187	2.7E-01
4831440E17F	0.37470853	5.8E-01
Klhdc3	0.37439339	3.5E-01
Tmtc4	0.37424144	5.8E-01
Ppid	0.37401984	1.3E-01
O3far1	0.37398359	5.8E-01
Eif4enif1	0.37340392	3.5E-01
Tnpo3	0.37340163	4.9E-01
Fbxl14	0.37317478	3.5E-01
Banp	0.37302555	3.2E-01
Mt2	0.37288291	2.2E-01
Pemt	0.37256887	4.9E-01
Tcp11	0.37252595	4.9E-01
Eif3d	0.37241594	3.2E-01
Cd14	0.37211829	6.6E-01
1700003E16F	0.37205273	4.9E-01
U2af2	0.37194577	4.0E-01
Ccdc85b	0.37182042	4.9E-01
Crnk11	0.37138595	3.2E-01
Fzd3	0.37121984	2.7E-01
Ep400	0.37107191	1.5E-01
Arl4a	0.37048266	2.6E-01
Pla2g16	0.37043023	1.5E-01

Ap3b1	0.37036936	4.9E-01
Mrpl49	0.37027415	3.5E-01
Wdr92	0.37000343	3.2E-01
Taf9	0.36963693	3.5E-01
2510003D18f	0.36956179	6.6E-01
Lpar3	0.36937284	1.2E-01
Drg1	0.36937106	2.3E-01
Zfp422	0.36929527	4.0E-01
Upf3b	0.36920558	3.2E-01
Fam60a	0.36895704	3.8E-01
Pcdh10	0.36876034	7.6E-01
Stxbp2	0.36833978	3.5E-01
Ciao1	0.36809962	4.0E-01
Uhrf1	0.36789851	4.9E-01
Itpr1	0.36767959	1.3E-01
Sod2	0.36760247	4.6E-01
Zdhhc2	0.36728284	5.8E-01
Carhsp1	0.36718435	4.5E-01
Wrb	0.36680544	3.5E-01
Gm16516	0.36663378	6.6E-01
Uba7	0.3665779	4.9E-01
Mif4gd	0.36640502	2.7E-01
2010012005f	0.36630577	1.5E-01
Wbscr25	0.36614178	2.2E-01
Ssbp3	0.36586223	3.5E-01
Itpka	0.36561436	4.9E-01
Tmem101	0.36547293	8.0E-02
Poc1a	0.36488076	7.6E-01
Sdr42e1	0.36439863	5.8E-01
Ftsj2	0.36438993	4.9E-01
Fbxo18	0.36424792	4.9E-01
Uqcrc1	0.36416423	3.5E-01
1700007L15F	0.36412293	4.9E-01
4930404N11f	0.36401409	4.9E-01
Dusp8	0.36390502	4.9E-01
Rrp15	0.363832	6.6E-01
Mtg1	0.36374489	4.9E-01
Rmnd5b	0.36323043	3.5E-01
Atp5s	0.36316501	3.5E-01
Fam160a2	0.36312489	6.6E-01
Zfp943	0.36310352	4.9E-01
Hist2h2bb	0.36305799	6.6E-01
Shmt1	0.36292786	8.1E-01
Dis3l2	0.36245909	6.6E-01
Rdh10	0.36237823	3.5E-01
Mum1l1	0.36232619	7.2E-01
Hspa2	0.36200672	3.8E-01
3010026009f	0.3619591	5.8E-01

Wdr60	0.36188434	3.5E-01
Ooep	0.36159437	2.2E-01
Dpy30	0.36145447	4.9E-01
Pim2	0.36136173	3.5E-01
Stx17	0.36109506	4.0E-01
Zdhhc4	0.36101561	3.5E-01
Odc1	0.36048875	1.5E-01
Aldh1a7	0.36043173	3.5E-01
Tspan31	0.36032883	3.5E-01
Fiz1	0.36032735	8.1E-01
Btrc	0.36028639	5.8E-01
Ecsit	0.3602406	7.2E-01
Sec11c	0.35979057	3.0E-01
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Cd3eap	0.3595166	6.6E-01
Tll4	0.35950169	7.2E-01
Bri3bp	0.35937078	6.6E-01
Gfm1	0.35934152	3.5E-01
Mesdc2	0.35932719	3.5E-01
Uqcc	0.35924293	7.6E-01
4933407H18f	0.35910862	2.6E-01
Gcfc1	0.35888589	1.6E-01
Rasa4	0.35882301	4.9E-01
Chia	0.35817958	4.9E-01
Frmd4b	0.35808972	1.9E-01
Pkd2	0.3574588	6.6E-01
Hist1h2ag	0.35723905	3.5E-01
Dap	0.35699549	3.2E-01
Nup88	0.35678922	3.5E-01
Abi2	0.35645818	3.5E-01
Zbtb44	0.35641543	8.0E-01
4921506M07l	0.35607797	5.8E-01
Hist1h2ah	0.35604362	3.2E-01
Sgcb	0.35587482	4.9E-01
Strada	0.35577439	5.8E-01
Bloc1s2	0.35556936	3.5E-01
9530077C05f	0.35533282	4.9E-01
Nek1	0.35522306	3.2E-01
Hmgb2	0.35519416	5.6E-01
Iqck	0.35500816	5.8E-01
Erlin2	0.3548125	1.9E-01
Ppp2r3d	0.35433471	3.5E-01
Zfp771	0.35411334	5.8E-01
Dnlz	0.3539202	2.2E-01
Txnl4a	0.35391171	3.5E-01
Rangap1	0.35381437	3.5E-01
Tuba1a	0.35349582	6.1E-01
Mrps17	0.353152	3.0E-01

2810002N01F	0.35297498	2.6E-01
2810008M24I	0.35256427	1.9E-01
Ccdc88c	0.35248144	1.0E-01
Xpc	0.35243694	2.7E-01
Gm13034	0.35236581	3.2E-01
Lxn	0.35233805	3.5E-01
Aifm2	0.35175883	6.6E-01
Rsbn1l	0.35165288	5.8E-01
Atic	0.35139403	3.2E-01
Yeats2	0.35138682	4.5E-01
Nin	0.35116797	7.2E-01
Ppil2	0.35093503	3.0E-01
Med24	0.35080159	3.2E-01
Nmnat1	0.35062425	5.8E-01
Rabggtb	0.35035695	3.5E-01
Hist1h2af	0.35015816	6.6E-01
Pfkl	0.35012621	1.3E-01
Ndufa9	0.3501132	2.3E-01
Tubg1	0.350028	5.8E-01
Smu1	0.34996051	3.0E-01
Upf1	0.34983352	4.6E-01
Rbl2	0.34961444	4.5E-01
Hsp90aa1	0.34922875	7.6E-01
Gna11	0.34889301	1.5E-01
Gtf3c5	0.34869485	5.8E-01
Cdyl	0.34832333	7.2E-01
Ppa1	0.34830042	5.4E-01
Mkks	0.34808843	5.4E-01
Rbm6	0.34801633	4.0E-01
C87436	0.34795409	6.0E-02
Wdr48	0.34768277	3.5E-01
Rnf26	0.34763094	6.6E-01
Junb	0.34748037	4.9E-01
B4galt3	0.34744764	2.2E-01
4930444F02F	0.34696102	2.2E-01
Trim23	0.34680574	2.7E-01
Lrrc49	0.34676749	4.9E-01
Grhpr	0.34567004	1.3E-01
Fbxo32	0.34558277	5.8E-01
Zfp367	0.34554324	3.5E-01
Tmem57	0.34553081	6.3E-01
4930549G23I	0.34545292	6.6E-01
Hist1h2an	0.34529806	3.2E-01
Pir	0.34528332	3.5E-01
Lztf1	0.34501465	4.5E-01
Josd2	0.34494509	7.6E-01
Rufy1	0.34487796	3.2E-01
Mphosph9	0.34471895	1.6E-01

Cited1	0.34438659	4.9E-01
2310030G06f	0.34424783	1.6E-01
Ttll5	0.34400888	5.8E-01
Bms1	0.34394864	5.4E-01
Acyp1	0.34361042	3.5E-01
Mfsd10	0.34341418	6.6E-01
Cd24a	0.34335926	3.8E-01
Lsm3	0.34310051	3.5E-01
Smad3	0.34269322	4.9E-01
Ldhd	0.34261454	3.5E-01
Zfp961	0.34251882	4.9E-01
Polr3b	0.34209094	2.2E-01
Tex2	0.34201492	1.0E-01
Pebp1	0.34194651	3.5E-01
Nsdhl	0.3415111	3.5E-01
B230219D22i	0.34107012	3.5E-01
Crybg3	0.34097446	3.5E-01
Acs1	0.34093544	3.5E-01
Ston2	0.3407483	2.7E-01
Zhx1	0.34074616	4.9E-01
Slc35b1	0.34033032	2.2E-01
Mbd1	0.34026703	5.8E-01
Rae1	0.34013305	4.0E-01
Anapc10	0.34012962	3.5E-01
Hmga1-rs1	0.3400207	4.0E-01
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Parp1	0.33986326	3.5E-01
Ugt1a6a	0.33966326	3.5E-01
Slc25a10	0.33954822	3.5E-01
Adrm1	0.33954551	4.9E-01
Pmpcb	0.33946205	2.7E-01
Zfp192	0.33942126	5.8E-01
2700049A03f	0.33930041	5.4E-01
Nr2f2	0.33906916	3.5E-01
Faf2	0.33876725	2.3E-01
Nedd1	0.33846743	4.9E-01
Mrps7	0.33831872	3.5E-01
Atp6v0d1	0.33831469	3.5E-01
Cul4b	0.33817215	4.5E-01
Ccrn4l	0.33814151	2.6E-01
Csrp2	0.33797395	2.7E-01
Cd55	0.33790346	3.5E-01
Sap25	0.33782407	4.9E-01
Gm5480	0.33776167	3.5E-01
Slc35a4	0.33750114	1.6E-01
Rbm34	0.33744938	5.8E-01
0610012G03f	0.33744362	1.6E-01
Cdca2	0.33733306	6.6E-01

1700012B15F	0.3372045	1.2E-01
Hp	0.33706809	1.9E-01
Chchd6	0.33688212	7.2E-01
AI597479	0.33677481	3.5E-01
Gtpbp4	0.3365147	3.0E-01
1190007I07R	0.33644602	4.0E-01
Dhx40	0.33642318	1.9E-01
2610002J02R	0.33635405	1.2E-01
4930455F23F	0.33612338	1.2E-01
Pycard	0.33609074	6.7E-01
Piga	0.33597718	3.5E-01
Btc	0.33596436	4.9E-01
Fzd7	0.33596372	9.0E-01
Ift20	0.33589148	5.3E-01
Abcf1	0.33573137	2.3E-01
Sgsm3	0.33558715	6.6E-01
Dph3	0.3355546	4.9E-01
Akr1b8	0.33544579	6.6E-01
Mphosph10	0.33525916	1.2E-01
Psm3	0.3348335	4.5E-01
Olfr543	0.33465332	4.9E-01
Kdsr	0.33430249	4.4E-01
Bik	0.33410192	5.8E-01
Sirt3	0.33393087	3.5E-01
Pdhh	0.33377515	3.5E-01
Ildr2	0.33359518	7.6E-01
Tmem181a	0.33344942	8.6E-01
Fsd1l	0.33342392	5.8E-01
Ssna1	0.33340088	3.5E-01
Ptges3	0.33257092	8.5E-01
Acrbp	0.33243559	5.8E-01
Tigd2	0.33236426	4.0E-01
Cbr2	0.33234684	3.2E-01
Ccdc123	0.33186677	7.2E-01
Ankrd17	0.33173384	6.7E-01
Gjb4	0.33148599	4.9E-01
Snap47	0.33133175	4.5E-01
Sqle	0.33097797	5.8E-01
Dtnbp1	0.33095866	2.2E-01
Adam17	0.33070543	3.5E-01
Entpd7	0.33057065	4.0E-01
Idh3g	0.3305374	3.0E-01
Tuba1b	0.33048031	7.8E-01
Usp28	0.33040475	6.6E-01
Tmem38b	0.33026993	3.2E-01
Wdr61	0.33021381	3.5E-01
Ctxn1	0.33001212	5.8E-01
Ddx23	0.32999045	4.9E-01

Iqgap2	0.32987742	4.9E-01
2510006D16f	0.32951362	3.5E-01
Bub3	0.3292934	2.3E-01
Irak2	0.32923692	4.5E-01
Polr2d	0.32922038	1.5E-01
Ptgs2	0.32912123	3.5E-01
Mef2d	0.32911193	4.9E-01
Psmf1	0.32911166	3.5E-01
Cinp	0.32910225	3.5E-01
Lin7c	0.32906785	3.5E-01
Pgbd1	0.32894708	5.8E-01
Dtx4	0.32878093	3.5E-01
Mlh3	0.32860301	6.6E-01
Appl1	0.32852307	3.5E-01
Eftud1	0.32826144	7.2E-01
Sox11	0.32769425	2.6E-01
Zmat3	0.32751566	7.6E-01
4833442J19R	0.32743949	4.9E-01
Prdm4	0.32730676	7.6E-01
Maz	0.32717101	4.9E-01
Mapk7	0.32707677	2.2E-01
Tfg	0.32670799	4.4E-01
Ppp2r3a	0.32654125	3.2E-01
Glt25d1	0.32618007	3.5E-01
Smpd1	0.3260195	1.3E-01
Hnrnp2	0.32601344	4.0E-01
Ccnd2	0.32592388	3.5E-01
Lrrcc1	0.32585426	1.6E-01
Morn1	0.32536429	4.9E-01
Asf1b	0.32524376	6.6E-01
Spata13	0.32519842	7.6E-01
Pcyox1	0.32489833	4.0E-01
Uty	0.32458389	7.2E-01
Sgpp1	0.32451751	2.7E-01
Ehmt2	0.32418502	7.6E-01
Gm684	0.32396406	7.2E-01
Xlr3c	0.32377983	5.8E-01
Herpud2	0.32370683	5.8E-01
Pgam5	0.32369863	8.6E-01
Brf1	0.3234715	8.1E-01
Mllt10	0.32304445	3.5E-01
Anapc4	0.3228692	4.9E-01
1700019E19F	0.32278387	4.9E-01
Gm6682	0.32228438	5.6E-01
Pik3c2b	0.32157262	2.6E-01
Hibch	0.3210806	5.8E-01
Aarsd1	0.32104032	8.6E-01
Churc1	0.32097467	4.6E-01

Agphd1	0.32091952	6.6E-01
Tjap1	0.32065174	4.9E-01
Tmed5	0.32059755	3.5E-01
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Sccpdh	0.32048027	4.5E-01
6430706D22F	0.32046855	3.2E-01
Ap2b1	0.32034354	4.0E-01
Thada	0.32012269	7.2E-01
Vrk1	0.31952686	3.5E-01
Dtx3	0.31949283	3.5E-01
Raph1	0.31948864	4.9E-01
Pms2	0.31937914	6.6E-01
Mcm7	0.31918189	7.2E-01
Hist1h2ai	0.31914112	3.5E-01
Ddx50	0.31903547	6.3E-01
Immp2l	0.31901302	5.8E-01
Stk30	0.31864123	1.3E-01
Xpnpep1	0.31863724	3.5E-01
Ilf2	0.31861305	3.5E-01
Gm221	0.31860475	5.8E-01
Scgb3a2	0.31849106	1.6E-01
Rbpj	0.31846984	4.5E-01
Klhl15	0.31825117	5.8E-01
Mrpl10	0.31824025	3.5E-01
Flii	0.31809332	4.9E-01
6330578E17F	0.31799728	7.2E-01
Uck1	0.31789638	3.5E-01
Smarca5-ps	0.31764657	5.8E-01
Cct6a	0.31763161	3.5E-01
Sec31a	0.31761318	2.3E-01
Gtpbp10	0.3173834	5.8E-01
Rsrc1	0.31733951	1.6E-01
Rassf6	0.31713911	5.8E-01
Pttg1	0.31674997	3.5E-01
1700001P01F	0.3165398	6.6E-01
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Gtf2h2	0.31624482	3.5E-01
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Isoc1	0.31599317	4.0E-01
Nme7	0.31589866	8.1E-01
Gltscr1	0.3157816	6.6E-01
Nupr1	0.31564612	3.5E-01
Golga3	0.31548517	3.5E-01
Zfp607	0.31545559	4.9E-01
Cherp	0.31537787	2.7E-01
Ppp4r2	0.31512969	6.3E-01
Ankrd10	0.31484668	4.9E-01
Rad21	0.31480315	3.5E-01

Tbl3	0.31454776	7.2E-01
Pop4	0.31444933	5.8E-01
Scgb1a1	0.31441922	3.5E-01
Mboat7	0.31437619	7.6E-01
Fancl	0.31433448	8.1E-01
Ctnnd1	0.31408947	3.5E-01
Tfpt	0.31401483	5.8E-01
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Rad51l3	0.3138225	5.8E-01
Ttbk2	0.31365812	5.8E-01
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Idh3a	0.31346148	1.9E-01
Echs1	0.31331124	3.5E-01
Psmc3	0.31312819	3.8E-01
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Fkbp14	0.31291269	3.5E-01
Fgfr3	0.31282448	5.8E-01
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Nf2	0.31256109	8.1E-01
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Nsmaf	0.31214504	4.9E-01
Rpgrip1l	0.31214157	2.2E-01
Mettl15	0.3121009	7.2E-01
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Bpnt1	0.31171423	6.7E-01
Nde1	0.31169547	7.2E-01
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Ppfia1	0.31129892	4.0E-01
Eif2b2	0.31102454	4.9E-01
Wdr70	0.31087004	7.2E-01
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Cxxc1	0.31016481	4.0E-01
Far2	0.31015687	7.2E-01
3110062M04l	0.309957	6.6E-01
Pcdhgb4	0.30975588	7.6E-01
Rad1	0.30970227	7.2E-01
Zfp609	0.30969177	5.8E-01
Phtf1	0.3095098	3.5E-01
Gpr137	0.30919022	7.2E-01
Chchd7	0.30917175	4.5E-01
Bzw1	0.30898665	5.8E-01
Lpcat4	0.30887621	4.9E-01
Rbm7	0.30867218	6.7E-01
1700093K21F	0.30858571	6.6E-01
Trap1	0.30856903	5.8E-01
Amfr	0.30846049	6.3E-01
Cct8	0.30824525	4.0E-01

Nus1	0.30814364	4.9E-01
Gapvd1	0.30809776	3.5E-01
Pepd	0.30806986	5.4E-01
Fytd1	0.30799115	3.5E-01
Aagab	0.30792565	2.6E-01
Rc3h2	0.30753293	6.7E-01
Lsm6	0.30730213	5.8E-01
Ncoa2	0.30721604	5.8E-01
Chrac1	0.30687999	3.5E-01
Creld2	0.30672602	4.9E-01
Pop1	0.30670433	6.6E-01
Epha1	0.30637578	7.6E-01
Tmem218	0.30636843	7.2E-01
H47	0.30623831	4.9E-01
Ubxn4	0.30623583	3.5E-01
Med28	0.30621039	3.5E-01
Wdr77	0.30600417	4.9E-01
Nhp2	0.30592634	2.2E-01
Rnf7	0.30589735	4.0E-01
Myst2	0.30584736	4.5E-01
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Atp6v1c1	0.30576281	6.3E-01
Psm9	0.30571001	4.0E-01
Trak1	0.30562636	5.4E-01
Pkig	0.30561643	7.6E-01
Sh3gl1	0.305598	4.5E-01
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Zc3h6	0.30526237	6.6E-01
Slc35a5	0.30521294	4.9E-01
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Mob3b	0.30499079	3.5E-01
Mbnl3	0.30493293	4.0E-01
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Gripap1	0.30448813	8.1E-01
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Gstm1	0.304245	4.0E-01
Hprt	0.30418363	3.5E-01
Srrt	0.30387948	4.5E-01
Aftph	0.30382233	4.0E-01
Dcun1d2	0.30374252	7.2E-01
Dmkn	0.30346174	2.2E-01
Abhd10	0.30309509	4.0E-01
Hspa4	0.30298431	5.8E-01
Rpap3	0.30286985	5.4E-02
Gsto2	0.30280205	6.6E-01
Lypd2	0.3023968	3.5E-01
Wdr47	0.30236924	7.6E-01

Psm6	0.30235476	3.5E-01
Zbtb38	0.30202298	3.5E-01
Rab43	0.30171862	5.8E-01
Tctn2	0.30168447	1.6E-01
Mtap1b	0.30157353	4.9E-01
Ralgds	0.30134669	2.7E-01
Med18	0.30106019	5.8E-01
Adprh	0.30096697	3.5E-01
Ddr1	0.30080329	1.9E-01
Pcnt	0.30058444	3.5E-01
Sdcbp	0.30046608	4.9E-01
Timm13	0.30039201	5.6E-01
Vamp4	0.30038048	7.6E-01
Cops6	0.30036783	3.5E-01
Gm14306	0.30034879	7.2E-01
Cep135	0.30024846	6.6E-01



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